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pondXpert

GreenClear UVC

15000 18W UV



23000 36W UV



40000 55W UV



Instruction Manual

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Thank you for choosing our product.Please read the operating instructions and familiarize yourself with the equipment before placing it in service. Correct and safe use of the system requires strict compliance with the safety instructions. For safety reasons children and young people under 16 years of age, as well as people that cannot recognize potential hazards, or people that are not familiar with these instructions, may not use this device.

CAUTION

1.The UVC filter should placed on somewhere that the water will not submerge it,and it should be 2 meters distance from the edge of the pond.This equipment can not be used under the water.

2.Before all parts are installed completely,the electrical source can not be switched on.

3.Please place the UVC in the steady and safe spot,because the UV light tube is made of quartz glass which is easy to be broken.

4.If the UV light tube or the body shell is broken,the equipment can not be used.

5.When any person in the water,the UVC can not be used.

6.Please make sure that the electrical voltage,frequency used are consistent with the indication on the escutcheon.

7.Electrical installations on garden ponds must correspond to the international and national installation directives.

8.Pull the connecting cable is forbidden,and please protect the connecting cable from heat,greasiness or sharpness.

9.Make sure the max pressure of the body shell ensured is less than 1.0bar.

10.When know the frost is coming,please move away UV filter.

11.When install the UV filter,please not let it under the sunlight directly.

12.The dirtiness on the quartz tube will influence the effect of the equipment,please clean the quartz tube in time.

13.In order to ensure the effect of the equipment,the UV light tube should be replaced after 8000 hours' usage.

14.When the body shell is blocked with the sands rubbish,it may destroy the quartz tube.So please add the filter sponge in the inlet of the water pump.

15.UVC is harmful to the eyes and skin.Please do not watch UVC directly or let the skin approach to UVC.

16.When install or repair this equipment,the electrical source must be switched off.

The equipment should not be used under the following conditions:

–Never use the equipment to convey fluids other than water.

–Never run the equipment without water.

–Do not use in conjunction with chemicals,foodstuff,easily flammable or explosive substances.

UVC CLARIFYING INSTRUCTION

This clarifier only works when a pump is connected to it that pushes water past the uv light held inside the unit. This UVC emits a 253.7nm wavelength ulraviolet ray which irradiates single cell algae forcing it to be clumped together to create bigger particles. These particles can then end up on the floor of your pond or picked up mechanically by your pond filter.

Safety and Electrical Connections

This unit is designed for outdoor use only. It is weatherproof and should be situated safely pondside.
NO PART OF THIS UNIT SHOULD EVER BE SUBMERGED IN WATER.
Always disconnect all equipment in the pond before starting to handle, maintain, repair or install items.
The UV clarifier housed within the filter is electrically operated so great care must be taken.
The following electrical and safety guidelines must be carefully followed.
Each clarifier is supplied with a length of 3 core electrical cable which is permanently connected.
If the electrical cord is damaged the product should be scrapped.

Voltage 220-240V/50Hz



The wires in the mains electrical lead are coloured in accordance with the following code:
BLUE – Neutral (marked with an "N" in most terminal connections)
BROWN – LIVE (marked with an "L" in most terminal connections)
GREEN/YELLOW – EARTH (marked "E" or earth symbol in most terminal connections)

1st January 2005 revised Building Regulations for England and Wales
Installing this product in the garden is classified as 'notifiable'. The Regulations now require you to tell your local authority building control department that you intend to install this product before installation. Your local authority will let you know how you can get your installation approved.

The termination to the mains supply should be permanent, inside a dry weatherproof enclosure, through a double pole switched fused spur with a minimum contact gap of 3mm – (disconnected) to BS 3676 – and fitted with a 3 or 5 amp fuse.
Exposed cable runs should be sensibly positioned, and protected if necessary, by armoured conduit.
A 10mA or 30mA Residual Current Circuit Breaker (RCD) MUST be fitted to the mains supply.
Permanent installations to the mains supply (hard wiring) must comply with the regulations of the local electricity authority which may stipulate the use of metal or plastic conduit to protect the cable.
If in any doubt about wiring to the mains supply contact a qualified electrician or your local electricity authority.
Protect from frost. In cold winter weather (when fish are inactive and algae growth ceases) the pump may be switched off. It should then be drained of water, removed (if possible) from its installation and stored in a dry, frost-protected area.

FEATURES

- Two outlets - useful if water flow needs to be divided into 2 flows. Typically just 1 outlet will be used in practice. A glass viewport is provided to block the unused outlet.

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Unit Assembly

Affix fixing brackets to unit. One to each end of unit as shown below:



You can then use the brackets to affix the UVC onto a flat level surface.

Attach hose-tails to inlet/outlets.
Clear/Black hosetails - either can be used.
Make sure O-rings are placed smooth side up.
This will help prevent any leakage.



General Maintenance

Quartz sleeve and UV bulb - to access unfasten the clip located on the side. Gently turn the ballast counter clockwise and pull the ballast apart from the UVC case:



Quartz sleeve can become coated in limescale build up - particularly in hard water areas. This quartz sleeve should be periodically cleaned with a damp cloth periodically. Use a flathead screwdriver to separate the quartz sleeve from the UV case and remove by pulling it out.

UVC CLARIFYING INSTRUCTION



Troubleshooting

Reassembling your UVC make sure the black O-ring sits on top of the quartz sleeve as shown. Close the unit with ballast pointing downwards to ensure o-ring doesn't fall out of place.

MALFUNCTION	CAUSE	REMEDY
The unit performance is not satisfactory	Water extremely soiled	Remove algae and leaves from the pond, perform a partial water change
	Quartz glass tube soiled	Clean the quartz glass tube
	UVC lamp capacity exhausted	Replace the lamp after approx. 8000 operating hours
UVC lamp does not light up	Plug not connected	Connect Plug
	UVC lamp defective	Replacing the UVC lamp
	Connection defective	Check electrical connection
	UVC overheated	UVC automatically switches on when cooled down

WEARING PARTS

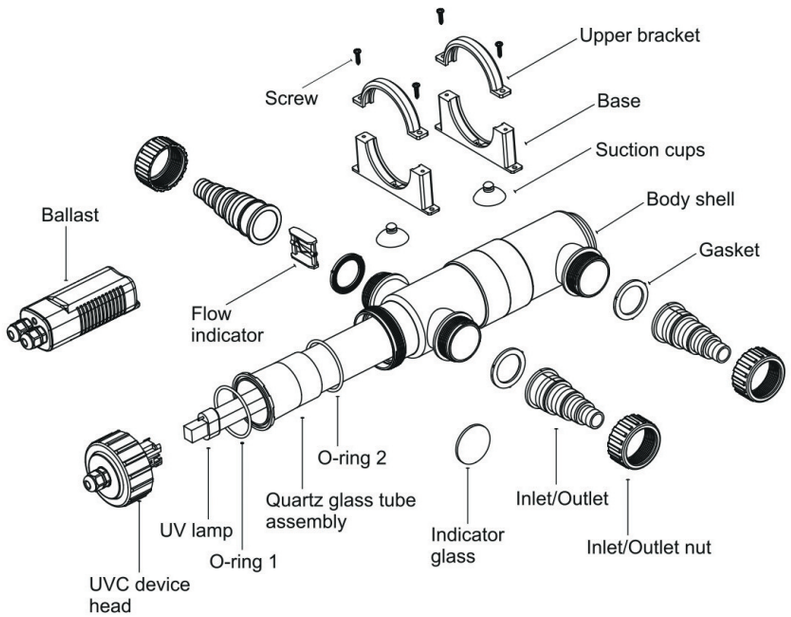
1. UVC lamp 2. Quartz glass tube 3. Gasket

STORAGE

In order to prevent the frost, the equipment must stop using, drain the water, clean and check. Then store in a dry place.

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Exploded parts diagram



GreenClear UVC INSTRUCTION

Specification

Model	Power UVC	Power Total	Sterilisation Optimised	Max Flow	Max Pond
15000	18W	22W	2500LPH	7500LPH	15000 Ltrs
23000	36W	40W	4500LPH	10000LPH	23000 Ltrs
40000	55W	55W	5000LPH	16000LPH	40000 Ltrs

Universal Specification (all models)

Voltage: 220-240v
Power Cable: 5 metres
Inlets/Outlets: 20, 25, 32, 38/40mm

THE REQUIRED IRRADIATION TIME TO INACTIVATE VARIOUS MICROORGANISMS

name		Time (seconds)	name		Time (seconds)
Bacteria	Bacillus Anthracis	0.3	Mould Spores	Aspergillus Niger	0.3–6.7
	Clostridium	0.3		Mucor Mucedo	4.6
	Dysentery bacilli	1.5		Penicillium Roquforti	0.9–3.0
	Escherichia coli	0.4	Algae	Blue-Green Algae	10–40
	Staphylococcus Albus	1.3		Nematode Eggs	3.4
	Micrococcus Candidus	0.4		Green Algae	1.2
				Protozoa	4.0–6.7

name		Time (seconds)
Virus	Bacteiophage	0.2
	Influenza	0.3
	Poliovirus1	0.8
	Hepatitis B Virus	0.8
Fish Diseases	Lenkoderma	2.7
	Infections pancreatic necrosis	4.0
	Epizootic haem atopcietic necrosis	1.6

Note: Radiation of micro-organisms is optimised by partnering your UV unit with the 'sterilisation optimised' flow shown in table above.

Limited Warranty

This product is guaranteed for a period of 12 months from the date of purchase for material or manufacturing defects. The guarantee covers the substitution of defective parts. However, the guarantee is considered null and void in the case of improper use, improper handling or negligence on the part of the buyer. If your pondXpert pump fails please take it back to the retail outlet from where it was purchased. You will be required to take your receipt/proof of purchase with you. This does not affect your statutory rights.

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Your appliance contains valuable materials which can be recovered or recycled. Leave it at a local civic waste collection point.

UK CA

CE

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