to the hosetail. If a blue-violet coloured light is reflected on to the paper, then the lamp is working correctly. The replacement should be a Germicidal Ultra Violet Lamp.

Remember the lamp emits harmful UV-C radiation so the burning lamp should never be observed.

The UV Tube Should be replaced every year (Around March - April). Clean and check the quartz tube for any sign of damage or deterioration - Replace if necessary. Also Check the UV Housing/Body for any sing of deterioration and again, replace if necessary.

Spare Parts										
Model	Tank	UVC	Product	Quartz	Product	Foam	Product	Flocor™	Product	UV Clean
Green Genie	Size	Wattage	Code	Sleeve	Code	Set	Code	Media	Code	Kit Code
2000	2.5 Gall	4	UVT4	4	QS4	PACK 300	FS300	Pack1 000	FLCS	MK4
3000	2.5 Gall	8	UVT8	8	QS8	PACK 500	FS500	Pack1 000	FLCS	MK8
6000	2.5 Gall	16	UVT16	8	QS8	PACK 500	FS500	Pack1 000	FLCS	MK8
12000	4 Gall	16	UVT16	8	QS8	PACK1000	FS1000	Pack1 000	FLCS	MK8
24000	12 Gall	25	UVT25	15	QS15	PACK1500	FS1500	Pack2000	FLCDIY	MK25
48000	15 Gall	2 x 25	UVT25	2 x 15	QS15	PACK2000	FS2000	Pack2000	FLCDIY	MK25



Guarantee

Your Green Genie filter is guaranteed against failure due to defective workmanship or materials for a period of 12 months from the date of purchase. Failure caused by accidental damage, misuse, neglect or used in liquids other than cold water are excluded from this guarantee. If a failure occurs during this period, a purchase receipt must be produced. The unit will be either repaired or replaced at the companies option. The company cannot accept any additional claims for consequential losses. All "ware and tear" items are excluded from this guarantee i.e Filter Media, UV Lamp, Quartz Tubes and O Rings. This guarantee does not affect your statuary rights.

This unit is manufactured in the EEC and conforms to CE Regulations	<u>Dealers Stamp:-</u>	
Lotus Water Garden Products Ltd. Eastleigh, United Kingdom.		Œ





INSTALLATION AND MAINTENANCE INSTRUCTIONS

12000

24000

48000

2000

3000

6000

Combined Ultra Violet & Pond Filtration System



- Safety Instructions
- ! Installation
 - Electrical
 - Maintenance
 - Spare Parts
 - Warranty



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Your filter may take 3-6 weeks to fully mature with beneficial bacteria.

www.lotuswgp.com

Safety/Installation/Electrical Instructions for all models WHY FILTER?

Pond pollutants are introduced via an accumulation of solids settling at the bottom. These can be categorised into two groups. I. Fish waste products - faeces, ammonia, dissolved carbon dioxide, etc. 2.. Decaying vegetation and uneaten fish food.

The solids quickly dissolve into the pond producing harmful bi-products, which are hazardous to fish health and may cause the water to become cloudy. Sunlight encourages algae, which makes the pond water green. The Green Genie Biological Filter and Ultra Violet Steriliser is designed to provide clean, clear water. The Biological effect ensures that the pond water is kept free of pollutants that can kill fish and plant life. The UV kills algae and harmful bacteria thereby making the pond water clear.

MECHANICAL FILTRATION

Mechanical filtration simply means the removal of the solids and prevention of their return to the pond. This is achieved by passing the water over layers, or layer of foam in the bio-filter.

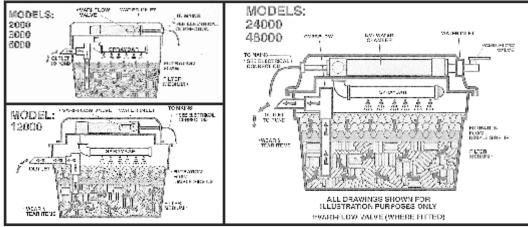
BIOLOGICAL PURIFICATION

This is achieved by colonising the plastic filter medium with 'friendly' bacteria and microorganisms which, when mature, digest pollutants thus neutralising harmful ammonia and nitrates. **UV STERILISATION**

This occurs when the UV light penetrates the water as the water passes through the water chamber. It kills the algae and harmful bacteria thereby making the pond water clear.

INSTALLATION - THIS APPLIANCE IS NOT SUBMERSIBLE

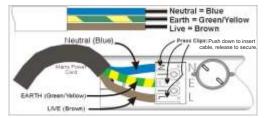
Connect a hose from the pump to the multi hosetail fitting on the top. The outlet water should be routed back to the pond. On initial set up allow the unit to operate for a week before switching on the electricity supply to the ultraviolet steriliser. This allows the filter to be colonised by friendly bacteria. Always run 24 hours a day for maximum efficiency.



Electrical Connection

The mains electricity supply MUST BE DISCONNECTED before Attempting Installation/maintenance or handling of any kind.

- 1). This unit is designed for permanent installation to the mains.
- 2). The power supply should be earthed and fused at 3amps.
- 3). Warning: A residue Circuit Device (RED) Must be fitted to the mains supply.
- 4). For permanent installation into the mains, it is necessary to comply with the regulations of the Local Electrical Authority.



- 5). Consult a qualified electrician if in doubt about any aspect of electrical wiring.
- 6). The Wires in the cable are colour coded as follows:

Brown	- Live
Green/Yellow	- Earth
Blue	- Neutra

If you need to extend the cable on this unit, you should use a suitable length of 7). 3 core cable and a Lotus waterproof (IP68) cable connector. (Ask your retailer).

WARNING: Never look directly at the U.V. bulb when it is switched on. The UV light generated by the bulb can cause damage to eyes and skin. The Unit is supplied With a translucent hosetail which will glow allowing you to see that the U.V. is Working.

Maintenance for all Models

CLEANING

The efficiency of the filter depends on the foam and the Flocor™ being colonised. The foams should not be cleaned unless water is passing down the overflow pipe. Usually only the top layer needs to be cleaned. Remove and shake clean whilst hosing with clean water. The Flocor filter medium should never be cleaned: however it can be removed to facilitate the removal of silt from the bottom of the filter box. Please note that the foam should be replaced every year.

ULTRA VIOLET STERILISER MAINTENANCE

When installing your Green Genie, if you need to use an extension lead use only the correct pep cable and waterproof (IP68) or weatherproof (IP67) cable connectors. Remember that pets and wildlife often damage cable, so it is advisable to run your cable through a length of hose and protect the connectors with an arrangement of rocks or bricks.

No routine maintenance is required. Routine replacement of the lamp is recommended no later than 8000 hours, or 12 months, whichever is sooner.

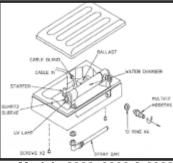
REPLACING BULB & QUARTZ SLEEVE

(all "wear and tear" items)

Models 2000, 3000 & 6000: (SHOWN ABOVE)

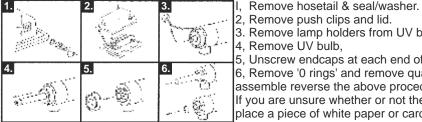
- Isolate Steriliser from mains supply and switch off Genie. 1)
- 2) Remove the two lid-retaining (self-tapping) screws.
- 3) Remove Genie lid.
- 4) Undo the hosetail by turning anti-clockwise.
- Remove spray bar by unwinding anti-clockwise. 5)
- 6) Separate the base from the lid. Pull the cable through as vou do so (remove hosetail on 12000 model).
- Disconnect the lamp holders and pull out the bulb from 7) housina.

REMOVING THE QUARTZ SLEEVE



- Models:2000, 3000 & 6000
- Unscrew the two compression fittings from the ends of the 8) water chamber and remove '0' rings.
- Slide out guartz sleeve; handle with care as it is brittle. Clean the guartz sleeve with 9) domestic acid or ammonia based cleaning solution rinsing thoroughly afterwards. If guartz sleeve is excessively scratched, then replace. Periodically check the white UV Body, This may need replacing if it is showing signs of deterioration.
- 10) Refit the guartz sleeve with the '0' rings and tighten up the compression fittings by hand.
- 11) Replace the lamp and refit the lamp holders.

REPLACING UV BULB & QUARTZ SLEEVE - Models: 12000.24000 & 48000



- 2, Remove push clips and lid.
- 3. Remove lamp holders from UV bulb,
- 4. Remove UV bulb.

5, Unscrew endcaps at each end of UV chamber. 6, Remove '0 rings' and remove guartz sleeve, To re-

assemble reverse the above procedure,

If you are unsure whether or not the unit is working, place a piece of white paper or card at the end close