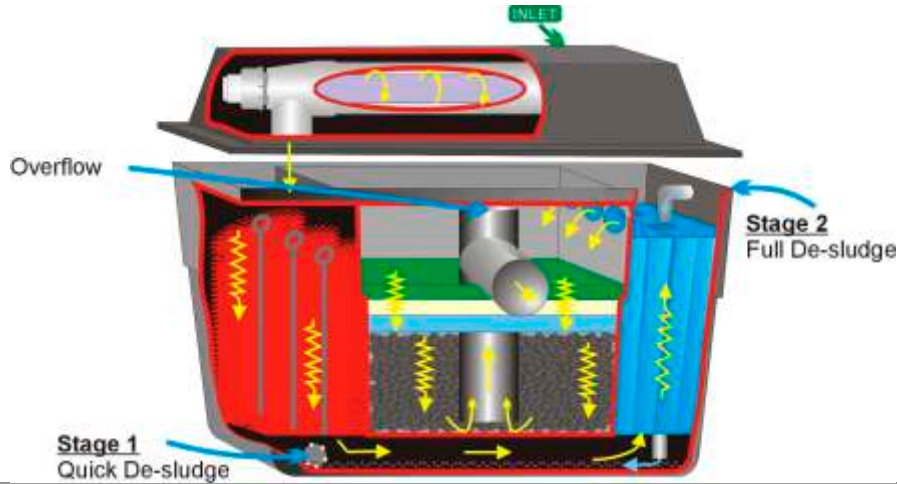


Replacement Parts

Your filter has been designed using tried and tested media. For optimum performance we recommend that you use only **Genuine Lotus Replacement Media.** (Ask your retailer).

- 1). **Brushes** - Only replace when necessary.(2 - 3 Years)
- 2). **Bio Cartridge** - Only replace when necessary.(2 - 3 Years)
- 3). **The Foam Set** should be replaced yearly (ideally in February or March before the start of the season).
- 4). **The Flocor™ Media** is hard wearing and will last several years before you need to replace it.
- 5). 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.

Model Clear Pond	Tank Size	UVC Wattage	Product Code	Quartz Size	Product Code	Foam Set	Product Code	Flocor Media	Product Code	UV Cleaning Kit Code
18000	4 Gall	18watt	UVT18	8watt	QS8	Pack 500	FS500	Pack 1000	FLCS	MK18
25000	12 Gall	25watt	UVT25	25watt	QS15	Pack 1500	FS1500	Pack 2000	FLCDIY	MK25
50000	15 Gall	50watt	UVT25 X 2	25watt x 2	QS15 X 2	Pack 2000	FS2000	Pack 2000	FLCDIY	MK25 X 2
80000	25 Gall	80watt	UVT40 X 2	40watt x 2	QS40 X 2	Pack 2000	Fs2000	Pack 2000 x 2	FLCDIY X 2	NA



Guarantee

Your Clear Pond 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 statutory rights.

This unit is manufactured in the EEC and conforms to CE Regulations

Lotus Water Garden Products Ltd.
Fair Oak,
Eastleigh,
Hants

Dealers Stamp:-



CLEAR POND FILTER

Instructions



Filtration

Whether you are a beginner or experienced water gardener, you will probably have one objective and that is to achieve a clean, clear healthy pond. Ponds can be affected by various factors such as unconsumed fish food, decomposing vegetation and fish excrement. If these pollutants are allowed to accumulate, in time they will become harmful to your fish. The use of a biological filter will remove these toxins (nitrite, ammonia) and provide good quality water with the additional benefit of reducing algae growth.

Stage 1 Ultra Violet Clarifier (U.V.C) This is situated within the lid of the filter. As water is pumped through the unit, the algae cells are penetrated by the U.V.C light destroying their ability to multiply and causing them to flocculate (bond together). This process creates larger particles which can then be removed more effectively by the Biological filter. The U.V.C will clear the water within 2 - 4 weeks and additionally the mild sterilizing effect will help to reduce harmful bacteria levels.

Stage 2 Mechanical Heavy sediments (Leaves, Blanket Weed & Fish Waste) are filtered from the water, as the water passes through the brushes. (1st Chamber)

Stage 3 Mechanical/Biological In the second chamber the water passes through the Bio Cartridge. This media filters the smaller debris which is not collected by the brushes. The cartridge also allows beneficial bacteria to grow on its surface.

Stage 4 Mechanical/Biological In the middle chamber, there are 3 layers of reticulated foam. Suspended particles are filtered out as the water passes through.

Green Foam: Course Grade
White Foam: Medium Grade
Blue Foam: Fine Grade

Biological - Below the layers of foam, there is Biological Media called Flocor™. The purpose of this media is to allow beneficial bacteria to grow on it's surface. Once matured the bacteria will breakdown the harmful pond pollutants (Ammonia & Nitrite) converting them into Nitrate... Which is naturally absorbed by pond plants.

Filter Installation



This unit is not submersible and must be positioned where it can not Be accidentally knocked into the pond or waterfall.

- 1). Ensure that all fittings are watertight. Use only the correct size outlet pipe for the filter outlet/s. (Please ask your stockist for details)
- 2). Site the filter on a firm level base so that the outlet is higher than the water surface of the pond, or above the height of the waterfall, if you choose to have one. Keep as close to the pond as possible.
- 3). From the pump in the pond, attach a suitable size and length of hose to the inlet of the filter and secure using a hose clip.
- 4). Your biological filter must be run 24hours a day to maintain the bacteria colony.
- 5). Please allow between 3 to 6 weeks for the biological media to mature.



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

Electrical Connection



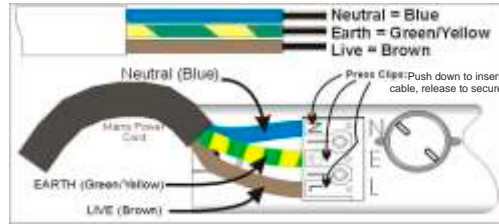
The mains electricity supply **MUST BE DISCONNECTED** before Attempting Installation/maintenance or handling of any kind.

- 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 (RCD) 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	- Neutral

- 7). If you need to extend the cable on this unit, you should use a suitable length of 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.



Filter Maintenance

- 1). Your filter is fitted with an overflow system (see diagram). If you see water entering the overflow, it is an indication that the media will require cleaning.
- 2). The Brushes in the first chamber should be kept reasonably clear from any heavy debris. These should be removed and washed in a container of pond water.
- 3). If the Bio cartridge in the filter seems clogged, then remove the media and rinse in a container of pond water. **DO NOT CLEAN THOROUGHLY JUST ENOUGH TO CLEAN OFF ANY LARGE SOLIDS.** Never allow media to become dry.
- 4). Remove the foams individually and clean in a container of pond water. The foams contain some beneficial bacteria and it is important that they are not cleaned in tap water.
- 5). Re-fit the foams before they dry and in the same order that they were removed dimpled side uppermost. E.g.

Top Layer:	Green Foam:	Course Grade
Middle Layer:	White Foam:	Medium Grade
Bottom Layer:	Blue Foam:	Fine Grade
- 6). The Flocor™ media should not need cleaning, however, if you need to remove accumulated silt within the tank, then the media can be removed and placed into a container of pond water while the tank is cleaned. (This will preserve the beneficial bacteria)
- 7). **Stage 1** Is a quick de-sludge, simply open the drain valve until the water runs clear.
Stage 2 Simply connect your garden hose to the hose connector, open the drain valve and turn on the water. You do not need to remove the media as the water passes underneath it. Therefore preserving the beneficial bacteria.

U.V Maintenance



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

- 1). After a period of time the quartz sleeve may become fowled with deposits of algae and timescale. These should be removed using a suitable cleaning agent, taking care not to scratch the surface of the quartz.
- 2). The UV lamp must be removed every 12 months or after 8000 hours of use. Although the lamp may still be showing a blue light, it is no longer producing sufficient UV to destroy algae and bacteria.
- 3). For UV maintenance, Lotus UV Maintenance Kit comes complete with Replacement Lamp, 'O' Rings, Quartz Sleeve and Cleaning Cloths (Please ask your retailer)
- 4). Periodically check the white UV Body, This may need replacing if it is showing signs of deterioration.

Replacing UV Parts



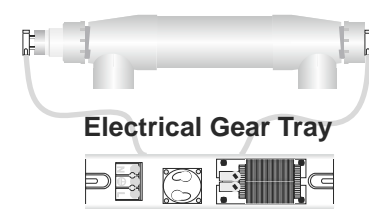
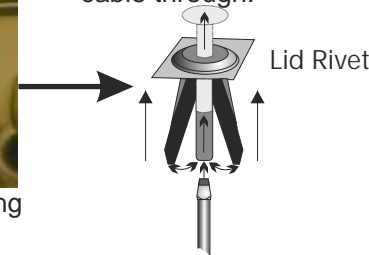
1). Remove Hosetail



2). Loosen cable gland and push some excess cable through.



3). Remove Plastic Fixing Rivets.



Electrical Gear Tray



4). Remove Lid



5). Disconnect lamp holders and remove lamp



6). Unscrew end caps and remove o rings, (We recommend that you replace these annually)



7). Carefully remove quartz sleeve



ATTENTION: - When re-assembling, ensure all fittings are water tight Paying particular attention to the end caps which should be Hand tight and Not over tightened.