**CLOVERLEAF**

**CLOVERLEAF GENESIS 2/3**

Thank you for purchasing a Cloverleaf Genesis 2/3 Biological Pond Filer. I hope you find the instructions below for fitting, and maintaining your filter helpful. The filter you have purchased is designed to filter a ponds of approximately 3,000 gallons (13,200 Litres) for Koi

600 galloons (26,400 Litres) for Goldfish.

For effective filtration you will need a pump installed that will turn your water around once every two hours.

YOUR FILTER EXPLAINED

Your Cloverleaf Genesis 2/3 can be either pump or gravity fed. If the filter is being pump fed you will need a Cloverleaf pump adaptor (Available from your local stockist, part number CLPA). This will convert the pump pressure to volume to maximise the efficiency of the vortex of the filter.

Your filter comprises of 3 separate biological/mechanical chambers.

The vortex acting as the first chamber has an inlet arm set off centre and is media free.

The second chamber is fitted with mechanical brushes which rest on top of a grid.

The third chamber contains your outlet and media of Aqua rock and foams, the rock again rests on a grid inside the green media bags supplied and foams placed on top of the Aquarock, foams should follow the order of fine on bottom, medium and then coarse*.*

Each chamber has a discharge incorporated to allow for easy waste control

Your filter comes supplied with a valve kit to control the waste disposal

INSTALLATION

The filter needs to be stood on hard level ground (i.e. cement base or paving slabs)

Pump Fed

The inlet arm on the vortex needs 5 to 6mm removed from the front of the arm, and the pump adaptor is pushed on without lubricant or sealant, the universal hose tail then needs to be cut down to required size for pump inlet and glued using solvent glue to the front of the pump adaptor.

The outlet needs 5 to 6mm removed and a 4” single socket ring seal coupling (part number SSC4) fitted. You now should use 4” soil pipe for return to your pond. Inside the filter the outlet pipe needs to have the top removed to act as an overflow, this should be cut 1-2” down.

Gravity Fed

The top lip of the filter should sit level with the water level of your pond. You need to remove 5 to 6mm from the front of the inlet arm and then fit a 4” single socket coupling (part number SSC4) which will push on without restricting your flow from your pond, ideally the filter should be fed by a bottom drain or skimmer via a 110mm Cloverleaf slide valve (part number CSV4). The outlet is 1 ½” bsp thread should be linked to your pump via flexible hose or rigid pipe, and the back to your pond.

*PLEASE NOTE FLUSH NEW AQUAROCK BEFORE INSTALLATION!*

PIPEWORK FOR WASTE DISPOSAL

Cloverleaf Slide Valve Installation

Parts:

3 x 1.5 Inch Swivel Bend

3 x 1.5 Inch Solvent Pipe

3 x Cloverleaf Slide Valve

6 x 50mm x 1.5 Inch reducing bush

Fix O/ring onto 1.5” tank connector on threaded side then screw tank connector into chamber after applying mastic to thread on tank connector

Apply Solvent Glue to inner socket of tank connector and to push swivel bend into socket of the tank connector and swivel bend hold for 60 seconds

Apply solvent glue to the inner of bush and inner of swivel bend, push the pipe into the swivel bend and push reducing bush onto the other end of pipe hold for 60 seconds

Apply solvent glue to inner socket of slide valve and outer edge of reducing bush, slide valve onto reducing bush hold for 60 seconds. NOTE ensure valve is in open position when applying glue to inner socket of valve

Repeat this set up for all discharges

The remaining bushes can be used on the exit side of valve to allow for extension of pipework if required. This will then take 1.5” solvent pipe.

It is possible to create a manifold linking all three discharges however this will involve using extra pipework which is not supplied. This will enable you to channel all your waste water to one point instead of four separate points.

MAINTENANCE

Your Cloverleaf filter has been designed to be simple and easy to maintain and clean.

There are no hard and fast rules to the filters maintenance as every pond is unique in its own way, regular observation and cleaning is the only true way of optimising the filters efficiency.

The four discharges allow you to release sediment collected in each chamber when required.

The brushes in the second chamber should be cleaned annually by removing and flushing with the use of pond water

The aqua rock in the third chamber virtually needs no maintenance, but if you notice a reduced flow a 50% replacement of rock will be required. The foams should be cleaned using pond water. NOTE: foams should be replaced every spring

*PLEASE NOTE FLUSH NEW AQUAROCK BEFORE INSTALLATION!*

**NEVER USE TAP WATER TO FLUSH FILTER OUT ALWAYS USE POND WATER**

All Cloverleaf filters are designed to run with standard Soil or Waste pipe which is available through your Cloverleaf stockist or through plumbing merchants

Replacement brushes, foams, Japanese matting and rock, or any pipe fittings are available from your Cloverleaf stockist

If you have any problems locating pipe or fittings, or any queries on the installation please do not hesitate to contact our help line on 01277 366002