

# Woodlands Nurseries

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## FILTRATION

A pond is a complete, miniature eco-system. Problems occur if any of its components get out of balance, for example pollution by fish waste, lack of movement or algae can all cause problems. Pond filters and UVCs help to create and maintain a healthy balance.

These modern filtration systems use a natural, chemical free process to create a healthy balance in the pond so that the fish and wildlife can enjoy a clean habitat, plants thrive and the whole feature is pleasant to look at.

Filter systems work by removing waste from the water. To get the most from your system it should be run 24 hrs a day and be connected to a pump of the right size for your pond.

Water quality can be maintained if a correct balance of plants to fish is attained. However in some ponds where the clarity is a problem or stock levels are higher then some form of filtration can be the answer.

There are a number of options:

**Mechanical** - where there is often a form of mechanical filtration in filters it is rarely used solely by itself.

**Biological** - where aerated water is passed over medium on which nitrifying bacteria lives.

**Vegetative** - where water passes through medium in which plants are being grown.

These are often used in combination together and with an ultra violet light which destroys the cells of free floating algae. When purchasing a filter you need

- Size of pond average - length x width x depth
- Stock, plants and fish
- Pump size (new or old) and pipe size
- Waterfall and fountain dimensions