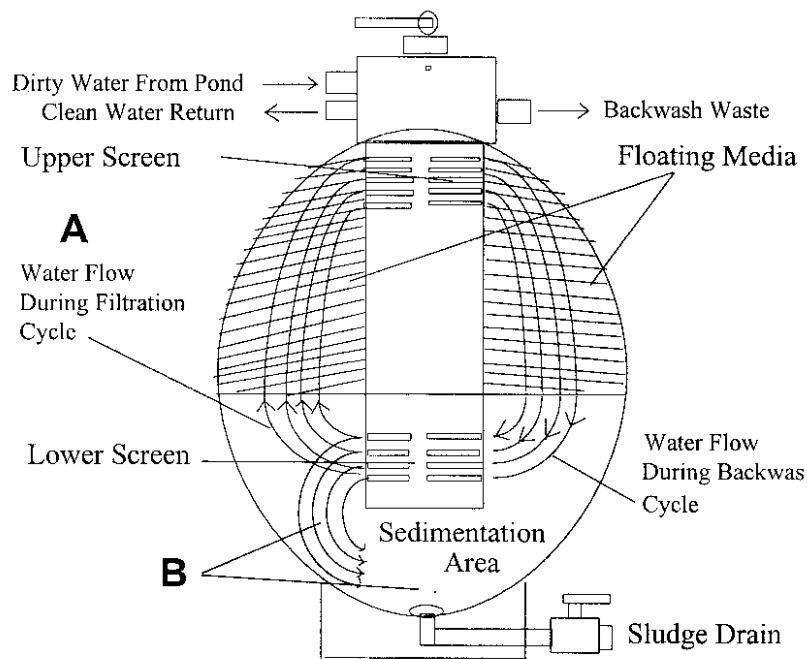


Aquadyne *Bead Filtration Systems*

The Worlds First Perfect Bead Filtration System

- * POWER BACKWASH
- * BOTTOM SLUDGE DRAIN
- * 5 MINUTE DISASSEMBLY
- * MICRO SEDIMENT REMOVAL
- * ADVANCED BACKWASH
- * COMPLETE MEDICAL BYPASS
- * 7" INCH TANK OPENING
- * INTERNAL SEDIMENT AREA
- * FULL RINSE CYCLE
- * FULL INTERNAL ACCESS
- * ONE TOUCH OPERATION
- * NO FLOW RESTRICTIONS

Internal Layout and Operational Design



During the filtration cycle, water flows upward (See **A**) through the bead media exposing the ammonia and nitrite laden water to billions of beneficial nitrifying bacteria which grow on the surface areas of the bead media. At the same time the bead media is capturing fine particulate matter such as fish waste and other light particles and allows clean water to return to the pond. Heavy waste particles such as mud and large waste debris to settle into the bottom of the main tank (See **B**) in the sedimentation area.

During the backwash cycle the water flow is reversed and the beads are decompressed from their packed state in the filter cycle. Gravity, together with forced water flow causes the waste and debris to be backwashed out of the media and washed out the lower grate screen to the waste line. As the water begins to clear up in the waste water sight glass, you will reposition the control handle to the rinse cycle. This will rinse any remaining debris from the top of the media. As soon as the sight glass runs reasonably clear in the rinse cycle, you simply return the control handle to the filter position and you are finished.