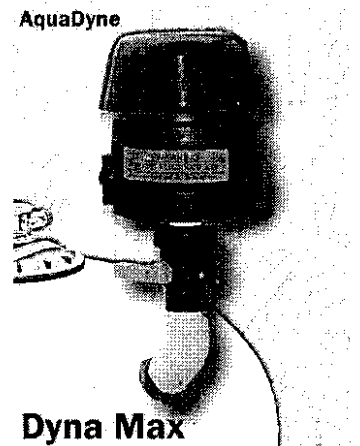


inches above the rim of the pipe. **Well, how about a 24 inch pipe.** That is exactly what you are doing with the AquaDyne 2.2 bead filter system. You are pushing water through a 24 inch tank with the media evenly spaced within the tanks full circumference. Sure, the water goes into and exits the tank very fast, but once inside, it is forced to slow down, just by shear volume. the water only speeds back up just a fraction of a second before it leaves the discharge port of the control head. If a 24 inch pipe were in the open air supplied by a 3900 gph pump, the water would only fall over the edge of the tank, without shooting anywhere. Just how slow do they seem to think the water needs to go? The AquaDyne system is more accurately described as a closed system rather than a pressurized

system, because powered by the suggested 2 speed pumps, you will not even get a pressure reading on the gage in the filter cycle. The flow rate inside the entire vertical column of the AquaDyne is just as slow if not slower than any other high volume filter on the market. They will just not tell you the truth, because they themselves do not know or won't face the truth. How do you like fuzzy tech so far?

Keep in mind the illustration of the water flowing so slowly through the 24" pipe and I will take you a step further and explain why sand filters, and lava rock, or gravel filled sand filters are not good alternatives for pond environments, and sooner or later anyone who installs one will tell you the same. First of all, the conventional format of a sand filter is a down flow system, meaning that the water comes in from the top and flows to the bottom of the tank for filtration. This is the way that gravity works also. Therefore it is only natural for all of the dirt and debris to fall, by gravity and water flow, into the media bed. But, the drawback is that gravity keeps it there, allowing the dirt and sludge to accumulate in the bottom of the tank. Remember the fuzzy tech illustration where the water flow through the 24" pipe just ran over the edge even though 3900 gph of water was forcing its way up? Well, with such a slow vertical movement of water, how much heavy dirt and debris do you think will get washed out of the media on the bottom of the tank? Sure, you will get dirty water out of the tank on a back wash, but it is only the very fine material that is light enough to be caught up in the slow moving 24" column of water. The rest of the sludge remains held in the tank by gravity and continues to accumulate clogging the areas between the heavy media. Consequently, eventually you will have to physically open the filter and break up the media almost every time you backwash. Especially once the beneficial bacteria cycles on the media, which causes an even further sticking together of dirt and debris. This is what is called channeling. Only very small areas of the filter remain unclogged during a backwash, that usually re-clog very shortly after restarting the filter. Most importantly, the clogging of the media causes dead areas which are subject to creating Hydrogen Sulfide which is lethal to fish and the result of septic waste products. Hydrogen Sulfide has a rotten egg smell, and is very distinguishable from the normal odor of a healthy backwash. A healthy backwash will be quite pungent, but it will have a slightly sweet smell. **On the other hand,** through redesign of a proven technology, AquaDyne reverses the water flow of the original product and creates an upflow filter through the use of our patented central diffuser column and a positively buoyant (floating) bead media, and overcome the problems associated with older filter designs.



**Photo Right:** Dynamax Air Wash System as installed on an 8.8. All piping is mounted internally for a clean outside appearance and to minimize overall foot print.