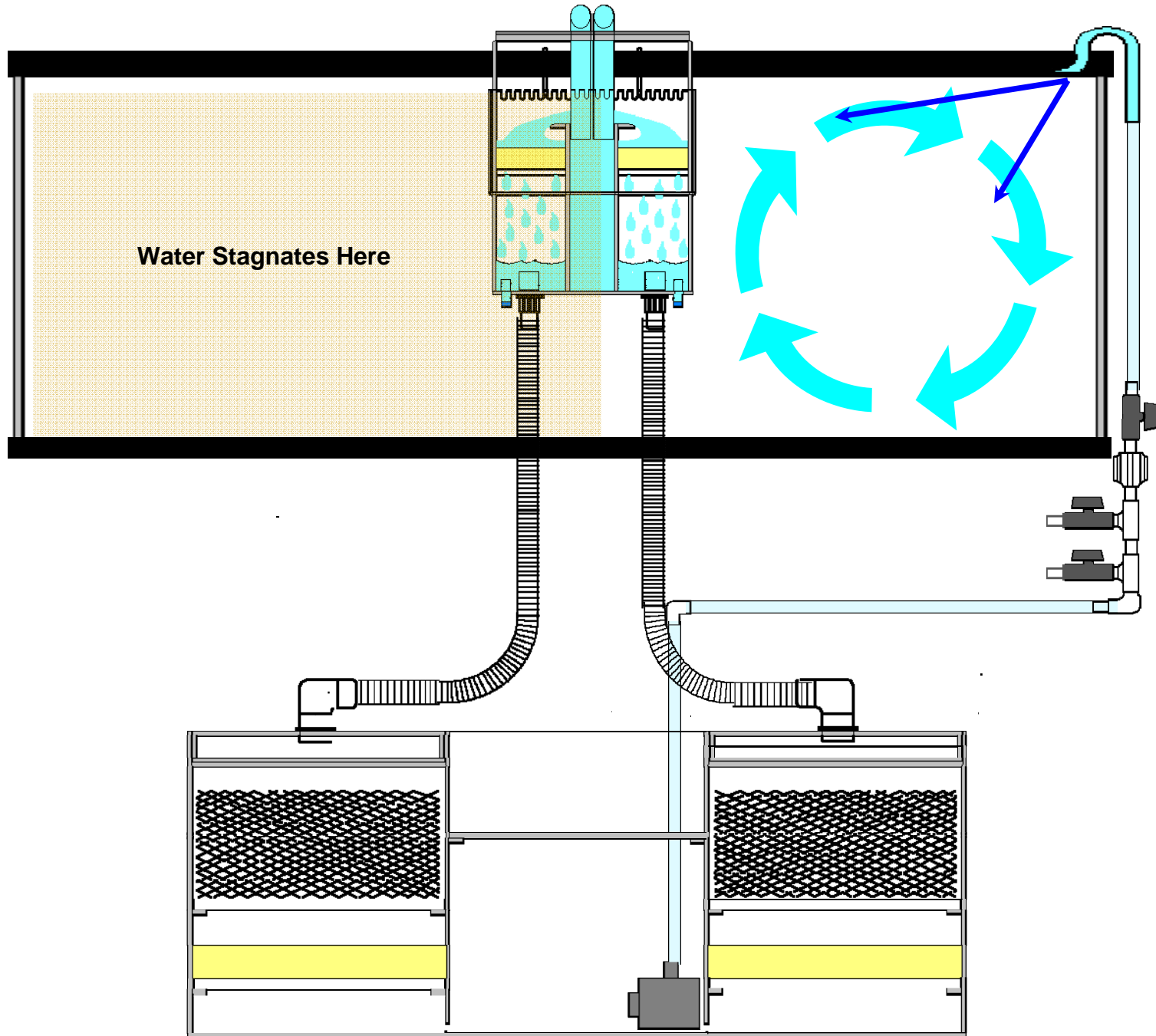


Please review the following 2 diagrams demonstrating different effects

Why we do not sell “Dual Boxes”

- There was a time many years ago when we tested, designed, and manufactured a single pre-filter box with dual (or multiple) bulk head fittings for larger aquariums. Not long afterwards we discontinued this model because quite simply they were not practical and did not make sense to standardize.
- Due to a flawed fluid control concept, a design of this type is not functionally viable and you should NEVER PURCHASE a double outlet unit that uses 2 siphon tubes that share a single surface skimmer box! Anytime 2 U-tubes are using this same surface skimmer box, the tubes will compete for gravity. One tube will dominate water flow, in turn slowing the velocity through the other until air accumulates in the weaker tube to a point that the siphon breaks. The dominant U-Tube is not able to handle the flow of 2 tubes that the water pump was originally adjusted to, therefore, excess water builds in the aquarium and runs the sump dry in the filter. If this condition is left unattended, very undesirable domino effects will result. **ie.** The aquarium could overflow, pump runs dry generating heat raising water temperature, spewing excess air into aquarium stressing fish causing the remaining siphon to fail, and damaging the water pump impeller.
- After testing the gravitational (unpressurized) flow rate 1” PVC sized bulk head most commonly used on wet/dry filter drains, we found that the max flow rate was 550 GPH. This is more than efficient enough to process a 150 gallon aquarium, the recommended 3-1/2 times in an hour. Now with that being said we found that, due to the overall length of larger aquariums, it became necessary to have a pre-filter installed at each end of the aquarium with a return line in the middle to promote a more thorough water circulation in the tank, making it easier to synchronize the flow rate through each of the pre-filters. This rendered a large dual exhaust overflow style box, useless.
- As demonstrated in the diagrams below, the proper method would be to utilize 2 separate pre-filter assemblies. Place one at each end of the aquarium and place the return line in the center to promote better circulation.

Single Pre-filter Unit with Dual Outlet



2 Single Units with Single Outlets

