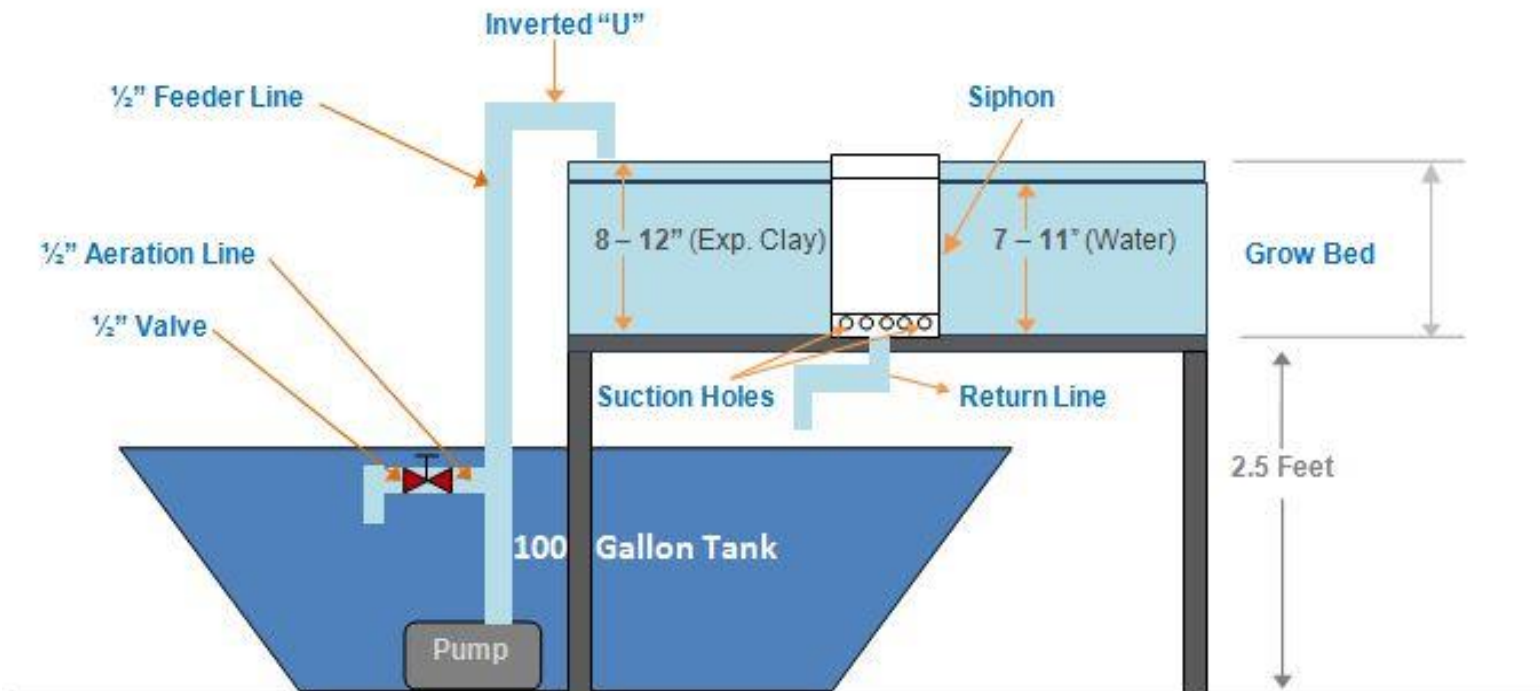


- DIY Aquaponics Materials List -



(System #3)

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Materials List

Tanks

You can get the 50 and 100 gallons tanks from any of the stores below:

- [100 Gallon Rubbermaid Stock Tank](#)
- [50 Gallon Rubbermaid Stock Tank](#)
- Or you can source them locally at your nearest available stores (livestock, garden supply, aquarium store or the sort).
- Use existing tanks that you may have lying around.

Growbed Support

1. Cinder Block Support

- Eight [Cinder blocks](#).
- Two 5" x L" wooden planks to support the growbed. (L" will depend on the length of the growbed and the fish tank that you are using).

PVC Piping

- [Schedule 40 \(Class 6\) 1 inch PVC](#)
- Approximately 16 inches of PVC pipe (assuming your standpipe is 11" and your silencer drain line is 5").
- [One 1" Bulkhead fitting/Tank Connector](#) (may need to be pre-ordered).
Bulkheads seem to be different in different countries, so it's advisable to get advice from your supplier in purchasing it and the coupler that goes with it, for our purpose.
- One female threaded coupler (threaded on one end & smooth on another).
Advisable to get advice from your supplier in purchasing the bulkhead that goes with it, for our purpose.
- One, 50mm to 25mm PVC reducing coupling.

- [Schedule 40 \(Class 6\) ½ inch PVC](#)
 - Approximately 4-5 feet PVC pipe (Depending on the distance from the pump outlet to the top of the growbed). And 4-6 inches for the aeration line.
 - 3 x ½", 90 [degree pipe elbows](#) (2 for the inverted "U" and one for the aeration line).
 - [½" tee PVC fitting](#) for the aeration line.
 - One, [½" ball valve](#) (aeration line).

- [Schedule 40 \(Class 6\) 110mm PVC](#)
 - 8"-12" depending on the height of your growbed media (at least 1" taller than the media).
 - Two, 110 mm end cap at the bottom to lock the strainer (the second one to cover the strainer top).

Pumps

- One [Submersible Pump 2000 liter/minute](#) (about 530 Gallon Per Hour) capacity with 4-6 feet of head is sufficient.
 - Or alternatively, source it from your local aquarium store.
- [Teflon tape](#) with ½" female one end threaded coupling for the pump outlet.
- [One Aeration Pump with an Air Stone](#) (*Optional*).
- A standby battery [operated aerator/air pump and an air stone](#) to keep the fish alive in case of pro-longed power failure.

Water Chemistry

- [Nitrifying Bacteria](#), [Chlorine Neutralizer](#), [Sodium Thiosulfate](#) and [Ammonium Chloride tablets](#) (assists initial bacteria start-up) if you want to speed things up.
- [Water Chemical Master test kit](#) or individual test strips for pH, ammonia, nitrites and nitrates you can get these from the above link.

Tools

- PVC [pipe cutter](#) or a [hacksaw](#).
- Drill with [32mm Hole Saw](#) for the growbed. (Get the size that is right for the threaded end of your bulkhead as explained earlier).
- [7mm drill bit](#) for the construction of the growbed strainer and for the drain line silencer.
- [4 or 5mm drill bit](#) for the “Leak Hole” in the bulkhead.
- [10mm-15mm drill bit](#) for the holes in the bottom end cap (optional).
- [Power drill](#)

Miscellaneous

- [Expanded Clay Pebbles](#) (Hydroton, 200 litres)
- [Fish Food](#)
- [Nursery Tray](#)
- [Working gloves \(cut resistant\)](#)
- [Sand paper \(fine grit\)](#)
- [Medium strength clear PVC glue](#) if you intend to glue up your PVC pipes.

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