

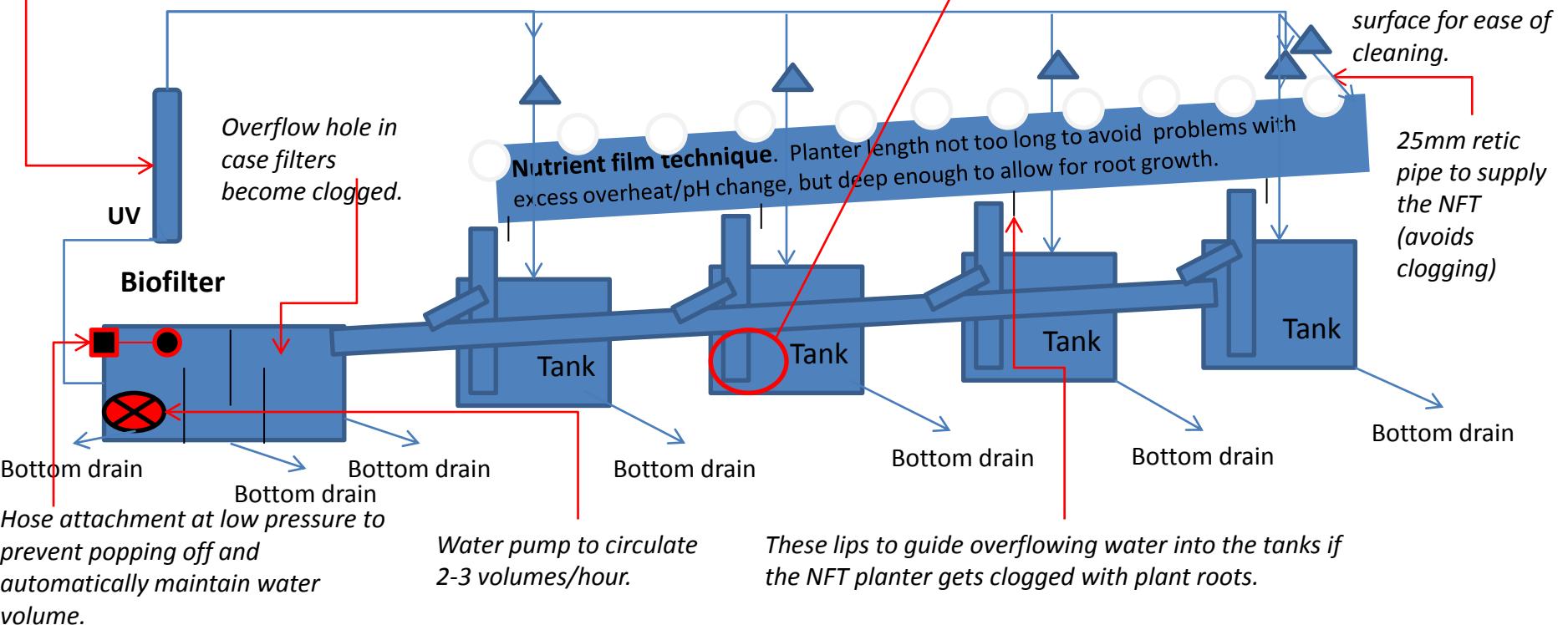
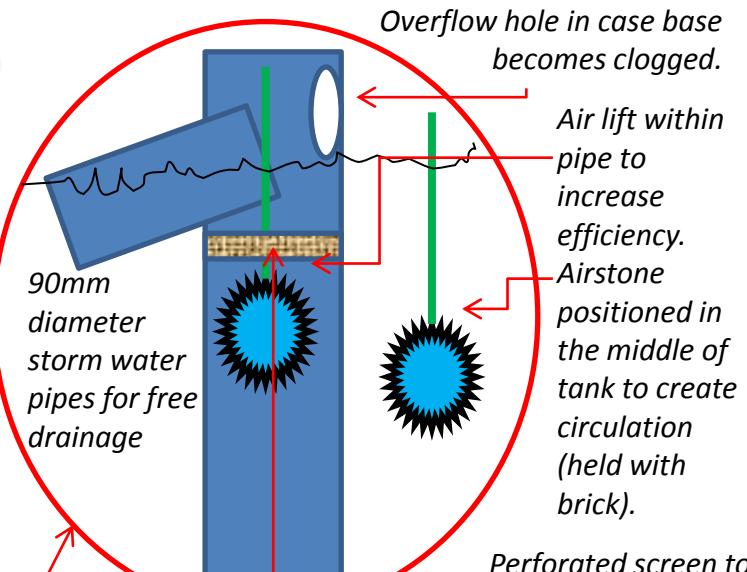
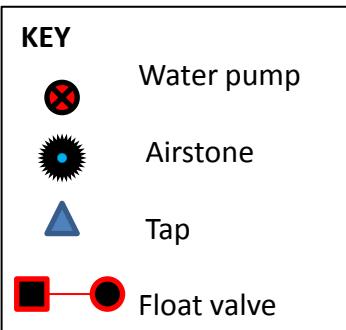
# The Fish Vet's Ultimate Aquaponics Setup

Dr Richmond Loh

Initial design: 30<sup>th</sup> December 2011

Last update: 16<sup>th</sup> January 2013

UV positioned to create "isolated" systems downstream in terms of disinfecting pathogens.



# Materials

- 90mm stormwater related materials
- N type cement & priming fluid
- 5 x L joints
- 3 x 6m stormwater pipes
- 5 x end caps
- 4 x 45° T-joints
- **Big purchase items**
  - 4 x caged tanks (1kL)
  - 1 x filter box
  - Filter material
  - 1 x water pump (~9kL/h)
  - 1 x UV steriliser unit
- **Tools**
  - Caulk gun
  - Pliers
  - Jig saw & hacksaw
  - Drill & hole saw (90mm & 70mm)
- 25mm reticulation related materials
  - 4 x taps
  - 3 x T joints
  - 2 x L joints
  - One roll of 25mm hosing
  - 20 x clamps
  - 1 x end cap
  - 4mm connectors
- **Misc. items**
  - 1 x reticulation hose
  - 1 x float valve
  - 1 x Silicone
  - 8 x air stones
  - 6mm airline tubing
  - Gutter guard plastic mesh
  - Cable ties
  - Outdoor powerpoint
  - Rags, fine sand paper