

Hydroponic

Project	Hydroponic
Description	Building and maintaining a hydroponic installation for our gardening nerds ;)
Type	Drip Recovery
Status	Discontinued → Successful results
Funding	[100%] of 185€
Contact	virii
Participants:	virii

What does it grow?

Currently: Fatalii yellow

In the Past: Lemon Drop Chili

Progress and Status

Material

- [Spundfass / Deckelfass 30 Liter](#)
- [Luftausströmer](#)
- [Aquariumpumpe 800l/h](#)
- [Hi-Tech Aero-Kit Membranpumpe & Schlauch](#)
- [24 Hours Plug in Timer](#)
- [UFO Led Pflanzenlampe 138w \(46*3w\) mit IR UV Ray](#)
- [Gardena 1399-20 Micro-Drip-System Start-Set](#)
- [Super-root Air-pot 3L](#)
- [Pixnor Portable LCD-Display Digital TDS Wasser Qualität Tester Pen](#)
- [PH meter](#)
- [Perlite Perligran Premium](#)
- [pH Down](#)
- [pH Up](#)
- [Compo Hakaphos spezial 16+8+22](#)
- [Dehumidifier](#)

Building

- Carve nearly all of the lid off in order to stuck the Air-Pot in it.
- Drill a hole into the barrel which should just be big enough to get the hoses trough.
- Connect the corresponding hoses with the air pump, water pump.
- Put the perlite in the Air-Pot.
- Connect the hoses of the micro drip system on Air-Pot.
- Flood the perlite with water. (This will remove all the dirt which would block up the water pump)
- Throw the dirt water away.

- Plant your seedling.
- Position your UV lamp approx. 20cm over your seedling.
- Use a plug-in-timer to start your Hydroponic construction. Your Hydroponic should run at least for 12 hours straight.
- Dehumidifier is a must if you can't open windows in your room.

PH

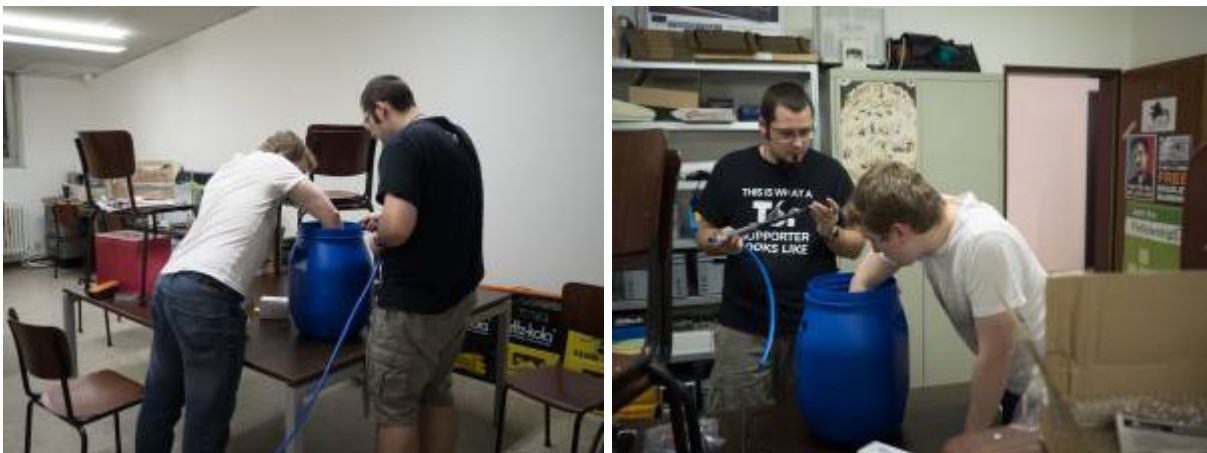
Optimal PH level for growing chilies lies between 5,2 - 5,6.

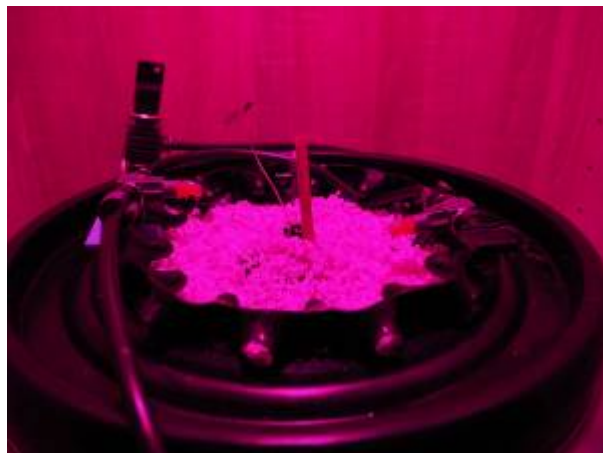
EC

Optimal EC level lies between 600-800 $\mu\text{s}/\text{cm}$ for seedlings.
After a month you can go up to 1300-1500 $\mu\text{s}/\text{cm}$.

Pictures

First version





Second version

