



## Jo's Smart Garden (Hydroponic)



SvB

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### Summary

This \$10 indoor hydroponic garden has a water reservoir, LED-grow lamp and timer. Ideal as a seed starter or grower.

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Tags: [planter](#) [plantpot](#) [hydroponics](#) [hydroponic](#) [pots](#)  
[growlight](#) [smartgarden](#) [potplant](#)

### This indoor garden includes

- water reservoir
  - Option 1: Base => 330mm (3.6L)
  - Option 2: Base => 250mm
- pots & trays
- level gauge
- filling hole
- LED grow stand (adjustable)
- funnel
- pot for growing sponges/pods

## You will need

- potting soil or growing pods  
(<https://amzn.eu/d/iybQKaT>)
- grow lamp 5-15 watts (ideally < 30 cm long)  
(<https://amzn.eu/d/3LRv7EU>)  
([https://a.aliexpress.com/\\_EH5xix7](https://a.aliexpress.com/_EH5xix7))
- wooden rods 12 mm x 300-500mm  
(<https://amzn.eu/d/46Aw3d5>)  
([https://a.aliexpress.com/\\_EG9UAqt](https://a.aliexpress.com/_EG9UAqt))
- 20m x 3mm cotton string  
([https://a.aliexpress.com/\\_EuqIj4h](https://a.aliexpress.com/_EuqIj4h))

## Print considerations

- No supports needed
- Level gauge
  - 0% infill (increases buoyancy)
- Base
  - Avoid infill in walls and bottom by increasing layer count,
  - fuzzy skin outside (fuzzy distance = 0.4 & fuzzy thickness = 0.2),
  - seam random

## How to Get Started

To start growing e.g herbs from seeds, follow these steps:

### Select the Herb Seeds

Choose the herbs you want to grow. Some popular options for hydroponic herb gardens include basil, mint, parsley, and cilantro.

### Prepare the Hydroponic System

Fill the pots with moist soil and water the reservoir tank. It is a good idea to add plant food to the water.

### Germinate the Seeds

Place the seeds in the moist soil, cover the top with food plastic wrap (cling wrap) and keep them in a warm area. The cling film ring can be used to secure the firm. Check the soil regularly to ensure it stays moist but not soaked. After a few days, the seeds will begin to sprout.

### **Provide Adequate Lighting**

The light needed will depend on the plant selected, so check its needs. As a rule of thumb, 12 hrs a day is good.

### **Prepare the pots**

You must add stings to the bottom of the pots to draw the water into the pots. This is commonly called the wick. To prep the pot:

1. Cut 34 x 500mm stings
2. Knot both ends
3. Knot the middle
4. Thread them through the holes in the pot's bottom





## Model files



250mm base

4 files



smart-garden-v29-250-tray-square.3mf



smart-garden-v29-250-tray-round.3mf



smart-garden-v29-250-led-holder.3mf



**smart-garden-v29-250-base.3mf**



**330mm Base**

6 files



**smart-garden-v19-tray-round-pot-6.3mf**



**smart-garden-v6-cover-4xsquare-pot.3mf**



**smart-garden-v6-base.3mf**



**smart-garden-v6-led-holder-40mm-wide.3mf**



**smart-garden-v7-led-holder-55mm-wide.3mf**



**smart-garden-v12-led-holder-fancy-70mm-wide.3mf**



**Round Pots**

4 files



**smart-garden-v19-round-pot.3mf**



**smart-garden-v21-cling-film-ring-round.3mf**



**smart-garden-v23-pot-holder-round.3mf**



**smart-garden-v32-grow-pod-pot.3mf**



## **Square Pots**

4 files



**smart-garden-v6-square-pot.3mf**



**smart-garden-v15-square-pot-tray.3mf**



**smart-garden-v21-cling-film-ring-square.3mf**



**smart-garden-v23-pot-holder-square.3mf**



**smart-garden-v6-foot-x4.3mf**



**smart-garden-v6-cover-1.3mf**



**smart-garden-v6-cover-2.3mf**



**smart-garden-v12-funnel.3mf**



**smart-garden-v12-level-gauge-full-level-notch.3mf**



**smart-garden-v21-cap.3mf**

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