PRUSA PRINTERS BETA

Small Self-Watering Seed Starter

Q Quint

VIEW IN BROWSER

updated 25. 2. 2022 | published 4. 4. 2021

Summary

A simple self-watering seed starter design with a small footprint. No excuses to get started with gardening

Household > Outdoor & Garden

Tags: pot selfwatering plantpot plants vegetables herbs seedstarter sprouting

Updates

- *06-12-2021: Fixed mesh issue with Basin_3x1, updated Basin_3x1.stl.*
- *20-07-2021: Fixed the sizes of BasinCover_3x3, 3x1 and 1x3, small fix parametric parameter.*
- *06-07-2021: Added extra drainage holes to the pots, lowered and increased length fill extension.*
- *27-04-2021: Added a .blend file to adjust the pots to any size, small design tweaks in .blend file.*
- *24-04-2021: Fixed BasinCover_3x3 floating from the surface, updated .3mf file & BasinCover_3x3.stl.*
- *17-04-2021: Added 1x3 & 3x1 models, renamed old models to 3x3, updated .3mf file with new models.*

Parts

The seed starter consists of 4 different parts (one of which is optional).

The Basin & Basin Cap

It holds all the seeding pots and serves as a reservoir. Through the small extension, you can easily fill the basin. It can contain enough water to only water the seeds a single time. The small extension can also be capped to prevent water from evaporating.

I recommend a minimum of 3 perimeters of wall thickness for the basin to ensure everything is watertight.

The Seeding Pots

The basin can hold up to 9 seeding pots at a time. The pots have a small hole in the bottom to access the water in the basin. The walls are thin enough to make them more flexible to make it easier when transplanting the seedlings.

The Basin Cover (Optional)

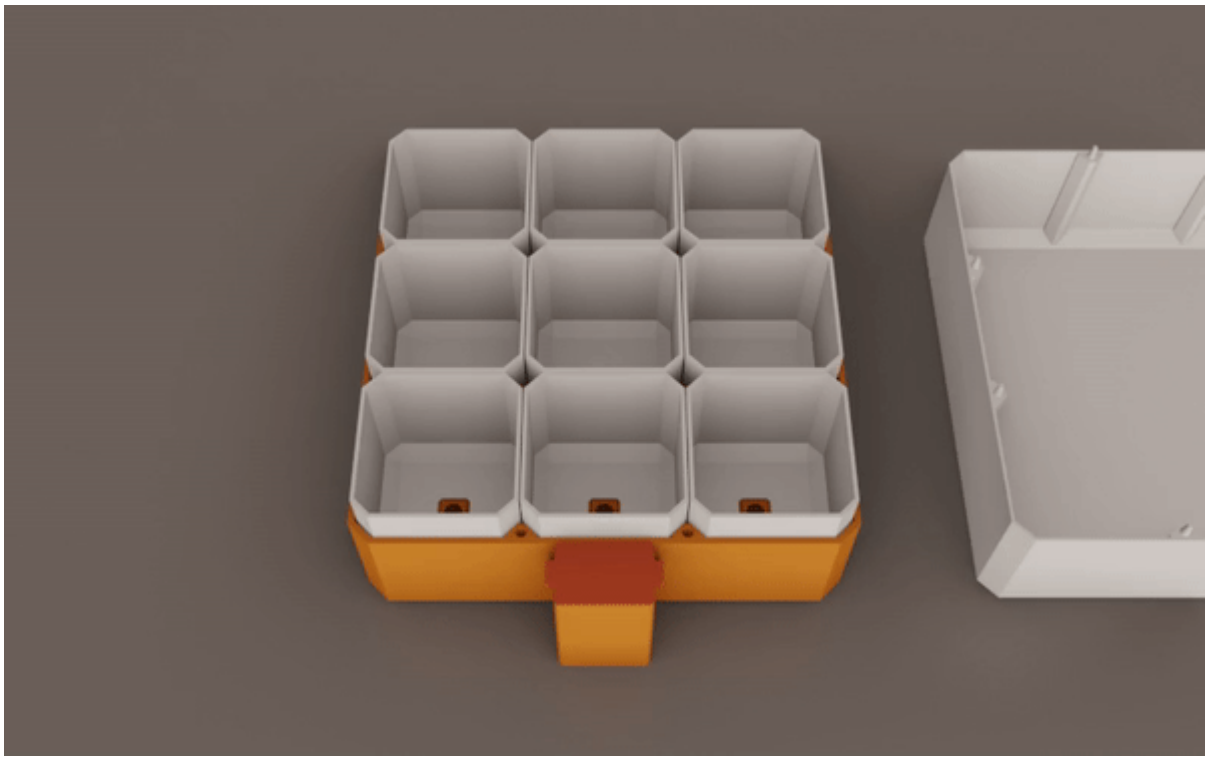
If you like to enclose the basin and make a small greenhouse, you can also print the basin cover. It is held in place by a couple of pegs in the basin, so the cover can easily be removed.

I recommend printing it with a clear filament so the seedlings can enjoy the extra amount of light and heat.

Parametric Design (Blender Only)

In the files, you can find a .blend file that you can use to adjust the dimensions of all parts.

The options currently available are located on the pots object. These let you change the width, x-amount and y-amount for the pots, and all other parts adjust accordingly. Depending on your pc, it can be a bit slow to process.



Filaments

For my print, I used the following filaments.

- PLA Prusa Galaxy Black for the basin.
- PETG Prusa Mango Yellow for the pots.
- PETG Prusa Clear for the basin cap and cover.

Model Files (.stl, .3mf, .obj, .amf)

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3x3 Basin — 4 files

Basin_3x3.stl updated 6. 7. 2021	488.2 KB	⬇
BasinCap_01.stl updated 6. 7. 2021	22.5 KB	⬇

Pot_01.stl
updated 6. 7. 2021

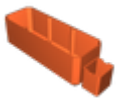
48.7 KB

BasinCover_3x3.stl
updated 20. 7. 2021

63.2 KB

1x3 Basin

4 files



Basin_1x3.stl
updated 6. 12. 2021

193.7 KB

BasinCap_01.stl
updated 6. 12. 2021

22.5 KB

Pot_01.stl
updated 6. 12. 2021

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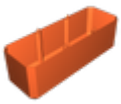


BasinCover_1x3.stl
updated 20. 7. 2021

33.5 KB

3x1 Basin

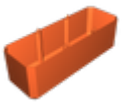
4 files

Basin_3x1.stl
updated 6. 12. 2021

193.9 KB

BasinCap_01.stl
updated 6. 12. 2021

22.5 KB



BasinCover_3x1.stl
updated 20. 7. 2021

33.5 KB

Pot_01.stl
updated 6. 12. 2021

48.7 KB

Self Watering Seed Starter.3mf
updated 20. 7. 2021

211.1 KB

Parametric Self Watering Seed Starter.b
updated 20. 7. 2021

188.0 KB

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