

SUNLU FilaDryer S1 Drybox Fan Holder

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Summary

For my SUNLU filament drybox (S1) I created a holder so I could add a 24V DC 5015 Radial Fan (50x50x15mm). This fan dist



1.31 hrs



1 pcs



0.20 mm



0.40 mm



PET



14 g



Prusa
MK3/S/S+

[3D Printers](#) > [Accessories](#)

Tags: [drybox](#) [filamentdrybox](#) [sunlu](#) [s1](#) [sunlufiladryer](#)

SUNLU FilaDryer S1

[UPDATE] I made a version 3 where the back of the fan holder is closed and there is a small indent for the power cable to route through. For a much cleaner look ;)

Also added a G-code file for a Prusa MK3S+ with eSun PETG if someone is interested.

I was inspired by Daniel Stahovic's video on YouTube.

For my SUNLU filament drybox (S1) I created a holder so I could add a 24V DC 5015 Radial Fan (50x50x15mm). This fan distributes the heat throughout the entire drybox, instead of just giving the filament heat from the bottom.

I also moved the temperature sensor upwards into the box itself. By default the sensor is right under the heat plate, giving 'false' readings how hot it is in the drybox.

The filament is still able to rotate freely and so it is possible to heat and dry your filament while you are printing right from the drybox.

Just unscrew the two screws from the heatplate 2mm and the holder slides on. I screwed and unscrewed the screws a few times until I got the height just right and the holder sits tight.

The fan itself is screwed onto the holder with M3-20 hex screws.

I used this fan from Amazon:

https://www.amazon.com/Furiga-50X50X15mm-Cooling-Brushless-Printer/dp/B08CY2LSX7/ref=sr_1_3?dchild=1&keywords=50x50x15mm+fan+24+dc&qid=1623483142&sr=8-3

Print Settings

Printer brand:

Prusa

Printer:

I3 MK3S

Rafts:

No

Supports:

No

Resolution:

0.2 or 0.3

Infill:

20-25% grid

Filament brand:

eSUN

Filament material:

PETG

Notes:

I used PETG, because the holder mounts to the hotplate screws and will get heated to about 50-55 degrees Celcius. PLA could warp or even melt at those temperatures.

Model files

 **files** 1 file


sunlu_fan_holder_v3_v3.stl

Print files

 **files** 1 file

sunlu_fan_holder_v3_02mm_petg_mk3s_1h19m.gcode
⚙ PET ⚙ 0.40 mm ⚙ 0.20 mm ⌚ 1.31 hrs ⚖ 14 g 🖨 Prusa MK3/S/S+

Other files

 **license.txt**



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