(Un)original Dryer D2 - Modular Heating Made Easy

B **Bram Elema**

VIEW IN BROWSER

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Summary

Tired of wet filament? The D2 allows you to store your filament and swap in a modular heater when it needs drying.

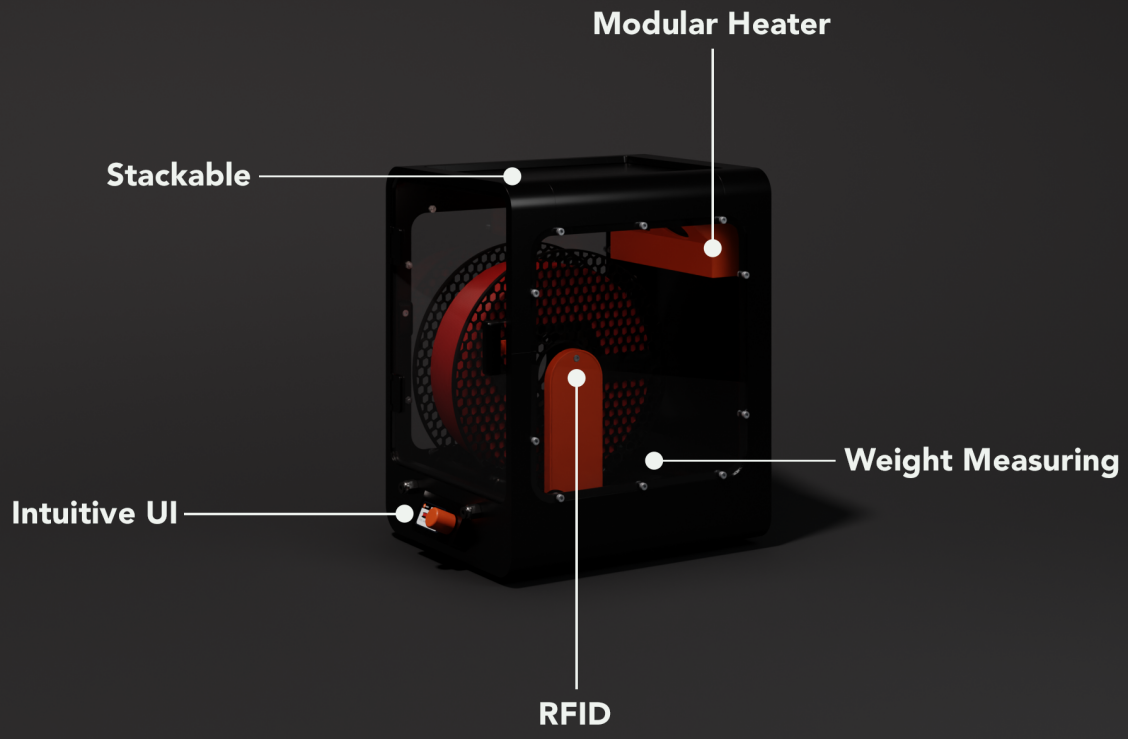
3D Printers > Accessories

Tags: drybox filament modular heater dryer filamentholder pcb unoriginal unoriginaldrybox

Update 12-10-2026: After receiving feedback that people wanted to see pictures of the actual dryer and not just renders, I now added some pictures of my prototype!

(Un)original Dryer D2

300x205x255mm (HxWxD)

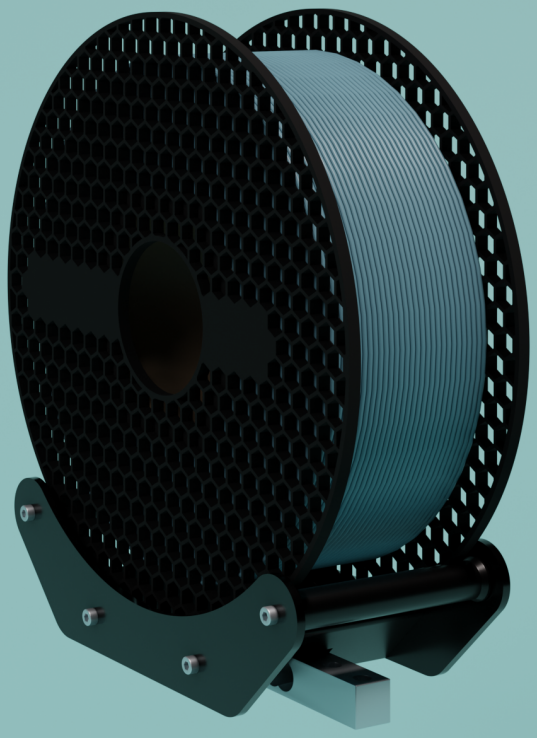


One heater, multiple dryboxes

The new, modular, approach of the Dryer D2 allows you to own just one heating module, and swap it in where needed. Don't need to dry at the moment? Just take the heater out and put the silica gel module back in its place.

Weight Measuring

Always wondering how much filament is left on your spools? Or scared that you will run out while printing? Fear no more, using the built-in scales of the Dryer D2 you will always know how much you have left and when you are about to run out.

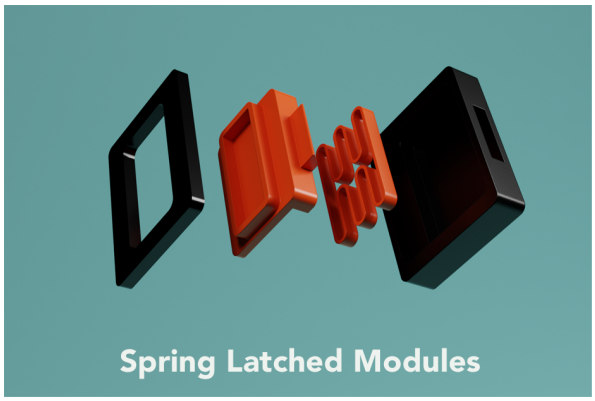


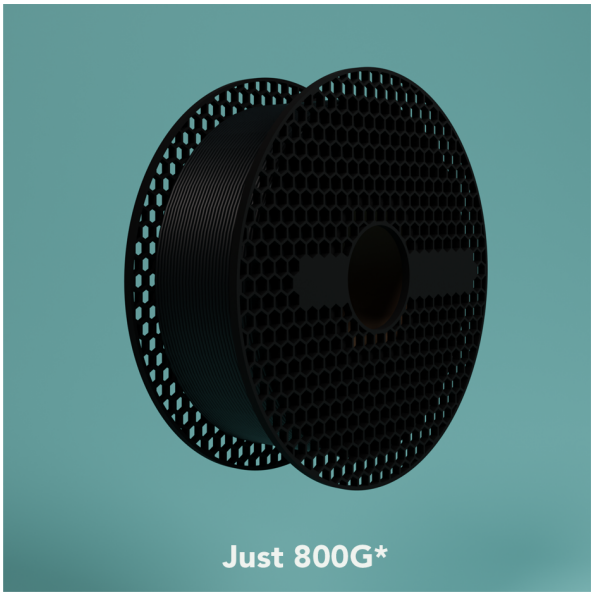
Intuitive UI

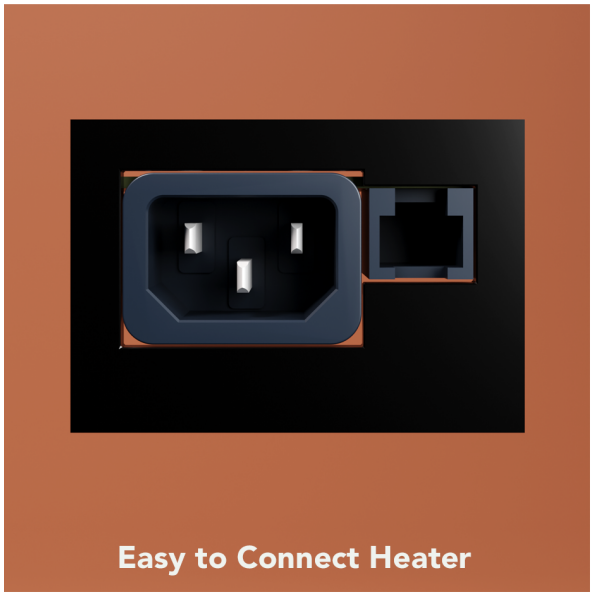
Get an instant overview over all your spools, configure the heater with the click of a button, and even see exactly when a spool was last dried.

Easy Assembly

Whether you are an experienced engineer, or someone who is just starting out and doesn't have much experience yet, This project is for everyone. All the electronics are made easy to assemble with the help of a set of custom pcb's which are available, together with all other non-printed parts, through a partnership with Blurolls.







Including heater, the base dryer without heater is ~660g
** RFID spool recognition is comings soon as a software update

And you can make it all yourself

To start, you can find the BoM (Bill of Materials) in the files section under "Documentation". For this project, I am working together with Blurolls who is providing part kits with everything you need. I receive a small cut of each sale, which helps me develop future projects like this one. But of course, it is also possible to source all the parts yourself.

Find the hardware kit here:

https://www.blurolls3d.com/products/unoriginal-dryer-d2-%E2%80%93-dual-spool-filament-dry-box-with-optional-heater-diy-kit?VariantsId=11591

In the "Documentation" folder, you can also find the step-by-step building instructions. I tried to make them as detailed as possible, but in case anything is still unclear, feel free to leave a comment.
And once you're done, also post some pictures of your dryer as a make!

Have Fun!

Model files

Main_STL_Files 27 files

top_front.stl

top_back.stl

bottom_front.stl

bottom_back.stl

top_left.stl

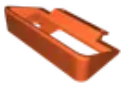
top_right.stl

bottom_left.stl

bottom_right.stl

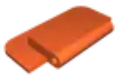
front_electronics_cover.stl

back_electronics_cover.stl

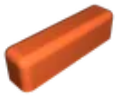


display_cover.stl

feet.stl



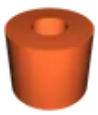
hinge.stl



door_handle.stl

door_latch.stl

rotary_knob.stl



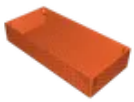
display_spacer.stl

roller.stl

roller_base.stl

foot_support.stl

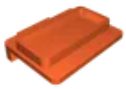
raiser.stl



silica_gel_front.stl

silica_gel_back.stl

spring.stl



spring_latch.stl

rfid_frame.stl

rfid_cover.stl

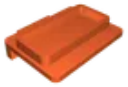
Heater_STL_Files

4 files

heater_bottom.stl

heater_top.stl

spring.stl



spring_latch.stl

Prusa_3MF_Files

10 files

plate_1.3mf

plate_2.3mf

plate_3.3mf

plate_4.3mf

plate_5.3mf

plate_6.3mf

plate_7.3mf

plate_8.3mf

plate_9.3mf

plate_10.3mf

Bambu_3MF_Files 1 file

unoriginal-dryer-d2-bambustudio.3mf

DXF_Files 8 files

side_panel.dxf

top_panel.dxf

bottom_panel.dxf

back_panel.dxf

front_panel.dxf

spool_roller.dxf

silica_gel_backplate.dxf

heater_backplate.dxf

Other files

Documentation 6 files

unoriginal-dryer-d2-manual.pdf

unoriginal-dryer-d2-bom.zip

unoriginal-dryer-d2-code.zip

main_board_v1_1_gerber.zip

power_board_v1_1_gerber.zip

heater_board_v1_1_gerber.zip

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