

CFS Floor Desiccant Trays Print & Use Guide

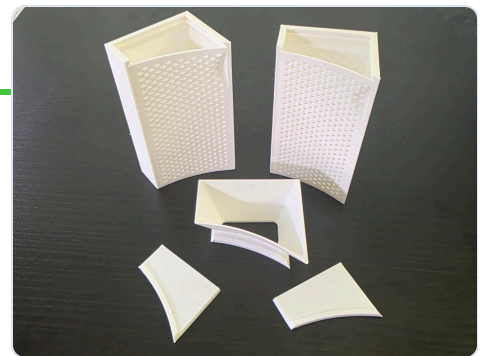
Two drop-in trays of loose silica for the recessed bay in the floor of the Creality CFS — no magnets, no tape, no screws.

[Three Printed Pieces](#)[Slide-On Lids](#)[Pre-Configured 3MF](#)

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The floor of the CFS has a recessed slot with a rib down the middle, and a tray drops in on either side of it. These are those two trays, sized to fill that bay with loose indicating beads you can see, refill and recharge. **They replace the machine's vented cover plates**, which only lay over bagged packets. Nothing is glued, taped or screwed.

In the download



Everything one CFS needs, plus the funnel. The scalloped top edge of the vented face is the **finger recess** you lift a tray by.

File	What it is
...-holder.3mf	Start here. Two plates — everything one CFS needs, plus the funnel. Tested profile already set up.
...-holder-funnel.3mf	The funnel lid on its own. You only ever print one of these , so this is the file for replacing a lost one — not something a second machine needs.
Three .stl files container, lid, funnel	The raw meshes, for your own slicer and your own profile.

There is no separate no-funnel file, and there does not need to be

Plate 1 of the main project already is the no-funnel plate: two trays and two solid lids, nothing else. Print Plate 1 on its own for every CFS after the first.

Print it

Both plates are already configured in `...-holder.3mf`. Nothing needs supports and nothing needs a raft.

Plate	Holds	Time and filament
Plate 1 — four pieces	Two trays and two solid lids — this is one complete CFS	4 h 34 m 53.19 g
Plate 2 — one piece	One funnel lid, printed once and then kept	42 m 35 s 7.66 g

Do not add those two together

The funnel lid is not a per-machine part. You print **one, ever** — not one per tray, not one per printer — and it serves every CFS you own. So a complete machine is Plate 1: **4 h 34 m and 53.19 g**, and a second machine later costs exactly that again and nothing further.

Settings

Layer height	0.12 mm
Walls	4
Top / bottom shells	5 / 3
Infill	9% gyroid
Brim	5 mm
Supports	None required
Material	PLA, 220 °C nozzle
Sliced on	Creality Hi, 0.4 mm nozzle, epoxy resin plate

Dimensions

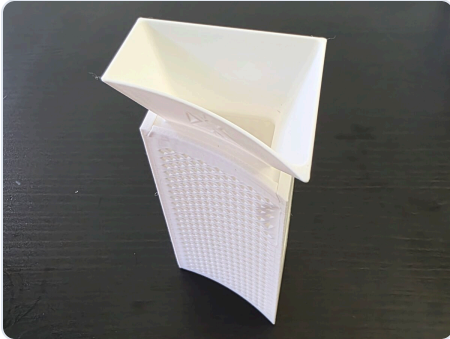
Piece	Size	Per CFS
Tray	102 × 51.5 × 39.75 mm	Two
Solid lid	47.75 × 37.45 × 3.2 mm	Two
Funnel lid	61.5 × 54.5 × 27.4 mm	One, ever

The tray is quoted as it sits in the machine. Its raw mesh exports X 102.00, Y 39.75, Z 51.50, which is not length-width-height — the lid is the proof, since 47.75 fits inside 51.50 and 37.45 fits inside 39.75.

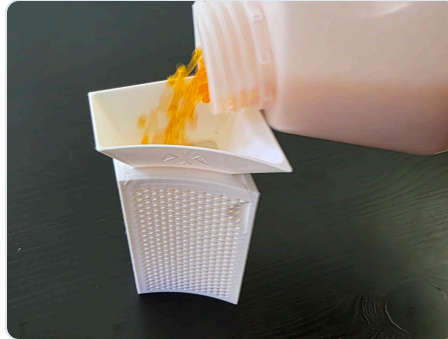
Fill it and fit it

What you supply

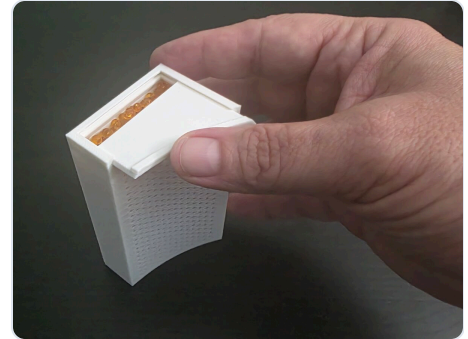
One thing, and that is the whole list: **loose indicating silica gel, 3 to 5 mm beads**. Mine is an orange indicating gel that is cobalt chloride free — orange when it is ready to work, dark green when it is saturated. No silica is included in the download, and there is no hardware to source.



Both lids ride the same dovetail. The funnel slides on to fill; the solid lid takes its place to use.

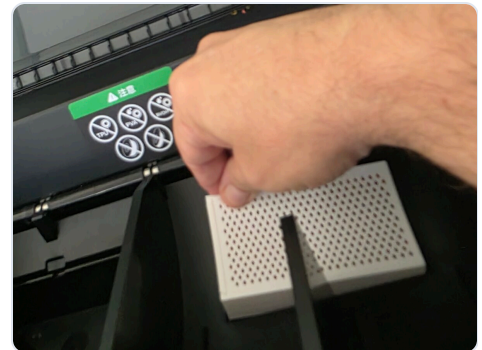


Filling through the funnel — nothing spills into the machine, which is the failure this part prevents.



The solid lid sliding into the dovetail on a filled tray — the beads are already in and nothing spills.

- 1 **Stand the tray on end**, open end up. That end is the only opening — the large perforated face is closed.
- 2 **Slide the funnel lid into the dovetail**. It goes on from the side and stops square; there is nothing to click shut.
- 3 **Pour the beads through the throat** until the tray is full. Fill it standing, not lying down — the beads settle into the corners on their own.
- 4 **Slide the funnel lid off and the solid lid on**. This is the step people skip. The funnel never stays on the tray; it is a filling tool and it comes straight back off.
- 5 **Repeat for the second tray**, then set both aside upright.
- 6 **Lift out the CFS's vented cover plates and keep them**. They only lay over bagged packets; these trays take their place and fill the cavities themselves.
- 7 **Lower one tray into each side of the floor recess**, vented face upward, either side of the center rib. Nothing aligns, clips or fastens. **Use the finger recess** to seat it and, later, to lift it back out.



Lower each tray in, vented face upward. Nothing clips or fastens — it sits there under its own weight.

Live with it

Reading the beads

Indicating gel is orange when it is dry and turns dark green as it saturates. Hook a finger into the recess along the top of the vented face and lift the tray out — though the beads sit directly under that face, so a glance through the holes is usually enough.

What it did on my machine

Two freshly filled trays, an empty chamber and no spools loaded, read off the CFS display: **41% relative humidity down to 13% in 4 hours 37 minutes**, 9% by the following morning, and **8% at the 24-hour mark**. Temperature was flat at 27 °C through the working day and 26 °C overnight.

A clean bottom-only measurement — no other desiccant containers in the machine — so it is these two trays and nothing else, and it was still creeping down overnight rather than leveling off.

When to recharge

When most of the beads have gone dark green. There is no schedule worth quoting — it depends on how often the machine is opened and how wet the filament going in is.

Take the beads OUT before you recharge them

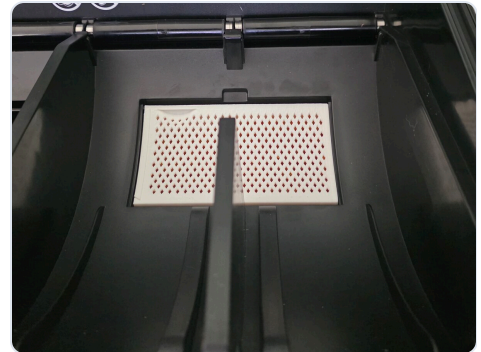
Indicating silica is recharged in an oven at **200 to 250 °F**, or in a microwave. **PLA starts to soften around 140 °F**, and a filament dryer runs to about 158 °F — so a **dryer will slump a PLA tray as surely as an oven will**. Tip the beads into an oven-safe dish and recharge them there. **Never put a printed PLA tray in an oven, a microwave or a filament dryer** — the bead tub's own instructions will lead you straight into melting it.

Print them in PETG and the dryer becomes an option

PETG softens around **176 °F**, above the roughly 158 °F ceiling on most filament dryers, so a PETG tray can go into one **with the beads still in it** and skip the decanting entirely. Two caveats: check your own dryer's maximum if it runs hotter than 70 °C, and remember a dryer never reaches the 200 to 250 °F the beads actually want — treat it as a top-up between real recharges, not a replacement for one.

One last thing — keep the funnel

It is the part worth keeping track of. Print **one**, put it in a drawer, and use it every time you refill — for this machine and any other CFS you add later. Questions, or something that does not fit? makerxdesigns.com



Both trays seated, one either side of the rib, their faces flush with the bay floor.