



## Inline Filter housing for 900S/ GL2103 HEPA filter element

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### Summary

USE AT YOUR OWN RISK I do not certify that use of this component is appropriate for any particular use. This filter...

[Hobby & Makers](#) > [Other Ideas](#)

### USE AT YOUR OWN RISK

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This filter housing has 23mm fittings (compatible with CPAP style hoses) and might be useful for some ventilation applications.

The filter used here is listed as a replacement filter for 900S / GL2103 desktop air purifiers & sold on [Amazon](#).

example search: [https://www.amazon.com/s?k=JINPUS+GL-2103&ref=nb\\_sb\\_noss\\_1](https://www.amazon.com/s?k=JINPUS+GL-2103&ref=nb_sb_noss_1)

### Print Settings

**Printer Brand:**

Creality

**Printer:**

Ender 3

**Rafts:**

No

**Supports:**

No

**Resolution:**

200

**Filament:** any PLA pro/PLA+/PETG

**Notes:**

The "lids" and nozzles were printed from PLA+. You could just as easily use PETG if preferred. I specified high wall & top/bottom surface thicknesses (3mm+) to ensure an airtight product.

Gaskets were printed from soft (85A) TPU. A stiffer TPU may work if printed with infill, but you want a product that will be airtight with compression on the gaskets.

Layer thickness is non critical. Print thick layers to reduce print time & improve adhesion.

**Post-Printing**

40mm long 3mm screws & nuts were used for assembly. CA glue was used for joining nozzles to lids. Nozzles & lids were printed as separate components to avoid needing supports. Lid2 has recesses for 3mm nuts. You may need to use a set of slip joint pliers to press nuts into place. If your printer tends toward "elephant foot" on the first layers, you may need to relieve the recess openings with a hobby knife.

There is a protruding bar on one side of the filter used. It improves fitment if you notch that where it meets the outer ring of the filter body (see picture). It also helps to remove the small nubs on the four flanges that originally served as stops when the filter was being installed in the intended air purifier.

**Showing notch on bar & removal of "nubs"**

Category: Other

# Model files



cpap\_hepa\_v2\_nozzle.stl



cpap\_hepa\_v2\_gaskets.stl



cpap\_hepa\_v2\_lid2.stl



cpap\_hepa\_v2\_lid1.stl

[Find source .stl files on Thingiverse.com](#)

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