



Solder Fume Extractor - 120mm 120v



chris

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Summary

A 120mm 120v solder fume extractor. fan specs. 120 x 120 x 38 mm (4.7 x 4.7 x 1.5 in.) 100 to 125V AC Airflow: 62 CFM...

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A 120mm 120v solder fume extractor.

fan specs.

120 x 120 x 38 mm (4.7 x 4.7 x 1.5 in.)

100 to 125V AC

Airflow: 62 CFM

Noise: 32 dBA

Speed: 1800 RPM

Dual-ball bearings have a lifespan of 67,000 hours and allows the fans to be laid flat or stand upright.

Print Settings

Printer Brand:

Creality

Printer:

Ender 3 Pro

Rafts:

No

Supports:

No

Resolution:

.2mm

Infill:

25% - 50%

Filament: Hatchbox PLA Black

Notes:

Extruder 210c

Bed 60c

How I Designed This

Remixed... to create yet another solder fume extractor

I combined a couple different things, to come up with something I liked.

The Filter housing and filter guard from

The fan collar came from <https://www.thingiverse.com/thing:3636749>

When I first tried to print the collar the filament broke about half way through, however this proved to be useful still, since the final collar is made up of 3 parts; the original failed part, the complete reprint, and a small slice about 7 mm thick to make up the difference to reach a total of 51.5 mm in thickness.

The bolts that came with the fan where used in the corners, and used M4.7 x 80 mm hardware to mount the filter housing and filter guard to the fan body.

I cut the factory plug off the fan end stripped and soldered to the terminals, and covered with heat shrink. the inside of the 2 halves of the

fan body needed to be clearance d with a grinding wheel to allow room for the wires to fit without getting pinched

120mm 110v muffn fan:

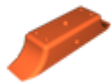
https://www.amazon.com/gp/product/B07CZRKTBZ/ref=ppx_yo_dt_b_asin_title_o02_s00?ie=UTF8&psc=1

Filters:

https://www.amazon.com/gp/product/B07D5SBPN8/ref=ppx_yo_dt_b_asin_title_o02_s00?ie=UTF8&psc=1

Category: Electronics

Model files



120mm_fume_extractor_-_mounting_lug_02mm_pla_mk3.stl



120mm_fume_extractor_-_filter_guard_02mm_pla_mk3.stl



120mm_fume_extractor_-_fan_collar_02mm_pla_mk3.stl



filter-housing.stl

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

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