



The ultimate DIY fume extractor



SuperLeggera

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Summary

Portable fume extractor with USB-C

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Tags: [usbc](#) [18650battery](#) [portable](#) [18650](#) [fumeextractor](#)
[fume](#)

This is the ultimate fume extractor for any maker. It has a custom PCB (available to buy from me at a reasonable price on [Tindie](#)) allowing variable fan speed control and battery operation with load sharing capabilities, meaning it can be used while charging from the USB-C port!

The model right now uses a standard 18650 holder for two batteries ([Aliexpress](#)) but you can use a single 18650 in a printed case or some other lithium battery, just make the necessary adjustments in the step file (please share with others if you do!).

What do you need to make this:?

- The PCB from [Tindie](#)
- A 120mm 12V DC fan + 4x M3 30mm mounting screws (can be modified for other screws)
- Screws for back cover, can be either M3 or some self tapping screws
- A carbon filter 130x130x10mm ([Aliexpress](#))

- A lithium ion battery and/or holder
- And of course to print the enclosure

Model files



base.stl



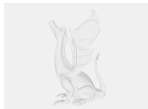
back-cover.stl



button-cap.stl



potentiometer-knob.stl



fume-extractor.step

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