



ATX fan air purifier

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Summary

Customizeable air purifier using an ATX case fan. Presets for 80mm, 90mm, and 120mm fans or use a custom size.

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A customizeable air filter designed around ATX case fans. Print the sides separately and then join them or print as a single box with a lid.

Open af.scad with openscad to adjust the parameters:

- Size of fan
- Size, number, and location of filters
- Size and location of power button and jack
- Whether the box is printed at once or in pieces, and how the pieces are joined


The default air filter is commonly available as 86880 or MC-V194H.


The included STL is meant to be glued together after printing the sides. It uses m3 screws to hold the lid to the box, the power button has a diameter of 13mm where it passes through the wall, and the power socket has a diameter of 8mm where it passes through the wall.


This is largely built on top of my parametric project box:


<https://www.printables.com/model/138448-configurable-parametric-project-box>


Model files


 **source** 3 files


 **af.scad**


 **build.scad**

 **lib.scad**

 **90mm_MC-V194H** 6 files

 **front.stl**

 **back.stl**

 **bottom.stl**



left.stl



right.stl



top.stl

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