



Bambu X1C HEPA Filter + Active Carbon Pellets Section



ScooterMAC

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Summary

Magnetic HEPA Filter for the Bambu X1C + Activated Carbon Pellets

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Tags: [filter](#) [carbon](#) [hepa](#) [activated](#) [pellets](#) [bambu](#) [x1c](#)

About:

Magnetic HEPA filter for the X1C which attaches to the exhaust fan in the back. This almost eliminates the PLA/PETG smell as well as making the fan significantly more quiet. This model has an index point for the proper alignment off the stock sheet metal screw (it's the smaller hole off center from the other's on the model).

The design is created from what small HEPA filters I was able to order from Amazon as well as being relatively cheap. You will need to super glue the 10 magnets into place as the exhaust fan can get quite warm during prints which dislodges magnets. I also recommended that it be printed in PETG but PLA+ might be sufficient for this.

Also, the model will need to be printed using supports but have found manually painting the supports on overhangs and setting the support type

to 'tree slim' worked great for me. Please see the images for more information about these settings.

Part List:

Hunter 5" HEPA Filters

<https://www.amazon.com/dp/B07C9QZNFK>

Magnets 6mm X 3mm

<https://www.amazon.com/gp/product/B08ZY13YFL>

Assembly:

1. Align the magnets in the same direction
2. Add drop of super glue and insert then insert one magnet at a time (x10)
3. Taking note of the air flow direction on the label and slide the filter into position, working one side at a time. This will be a tight fit.

V1 Note: This will not stop the ABS, ASA or other toxic filaments. I have not tested this with a VOC meter so I can only get off the smell during printing. I have printed ABS with this attached and it still stinks like hell's fire pit. If you have a VOC meter and use this, please post the results!

V2:

Added the ability to add 200g of activated carbon pellets pre HEPA filter. This completely eliminates the smell of PLA/PETG while greatly reducing the odor of ABS almost completely. I would say (subjective) around 95% reduction in fumes. This will need to be backed by a VOC meter reading which I do not have. Please see the linked Amazon pellets used, but welcome for others to post better/cheaper options. You can use the included pellet bag or dump them straight into the section of the post filter. There is now a captured cover to seal and contain the loose pellets. When printing ABS I used a 10% chamber fan to clean the air without over cooling the parts being printed.


Please see the V1 instructions for printing the overhang for the filter as this only required one tree support now.


Parts List:

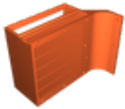
Activated Carbon Aquarium Bamboo Charcoal Pellets

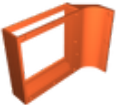
<https://www.amazon.com/gp/product/B09KY77LJ9>

Model files

 **v2** 2 files

 **activated-carbon-lid.stl**

 **activated-carbon-and-hepa-filter.stl**

 **bambu-x1c-hepa-filter-125mm-x-28mm.stl**

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