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 C17-EXT-MINI

HEPA 13 - Carbon filter by OboMaker3D



1.0 ASSEMBLY MANUAL

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INTRODUCTION

WARNING



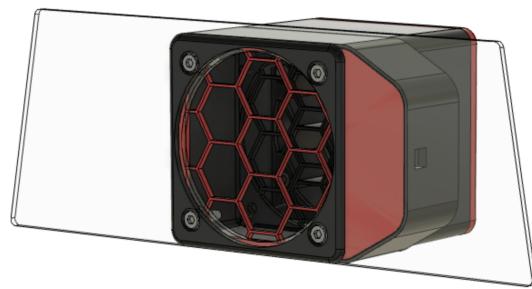
During the processing of plastics and polymerization, the rise in temperature can lead to the release of dust, nanoparticles, gases and potentially dangerous volatile products. 3D printing uses different plastics and resins with possible release of monomers from polymeric thermoplastic filaments or residual feedstocks, but also uses solvents and paints in the finishing of the parts. Thermal decomposition products (fumes and/or vapors) may be emitted during printing operations.

This assembly allows the use of professional cartridges that allow the filtering of odors and causes of irritation. Nevertheless you are responsible for the materials you use and the conditions in which you use them to make 3D prints.

Please, read the entire manual before you start assembly.

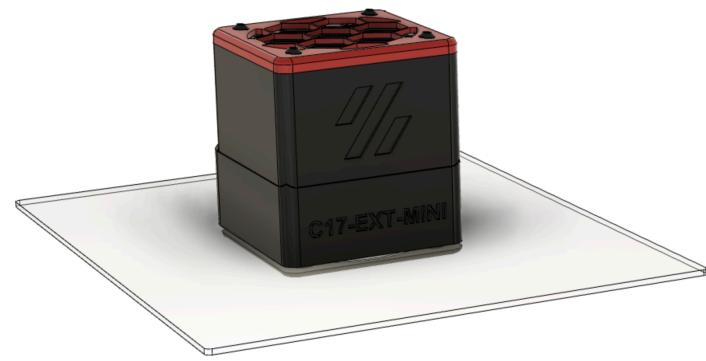


CONFIGURATIONS



CONFIGURATION 1

Top installation.



CONFIGURATION 2

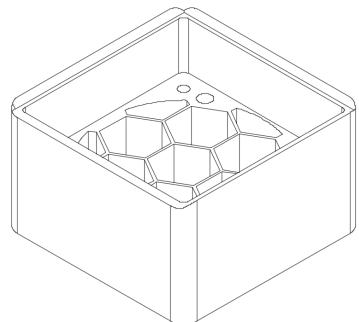
Back installation.



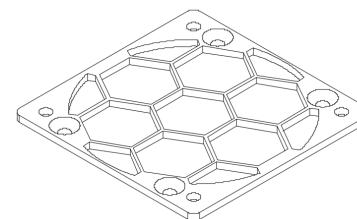
STL

FILTER

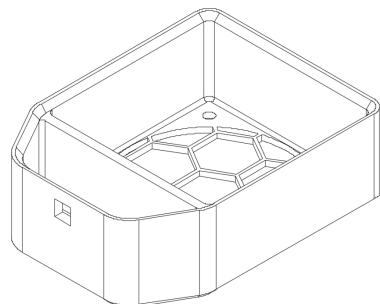
Use the standard Voron recommendations to print your parts.



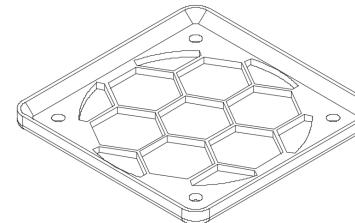
1 Filter box



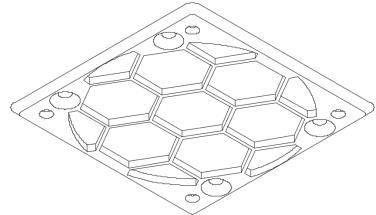
4 Cartridge grid B



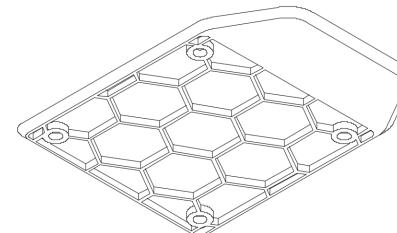
2 Fan box



5 Cartridge grid C

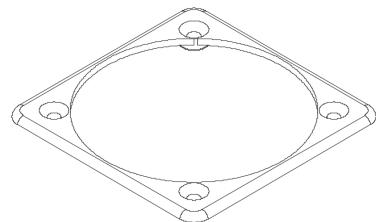


3 Cartridge grid A

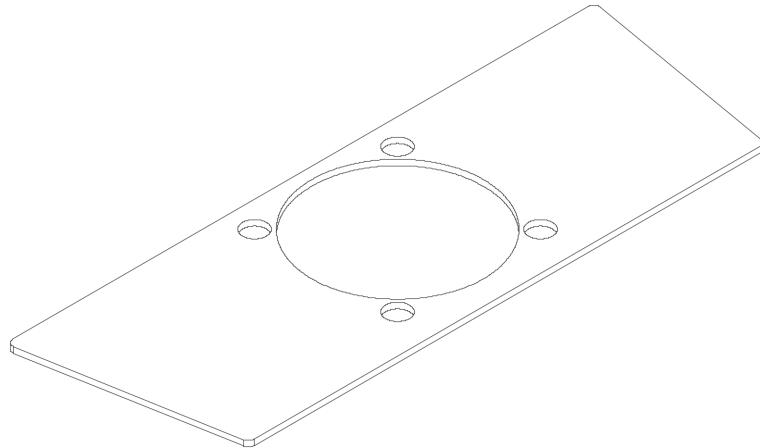


6 Fan grid

VORON ADAPTER



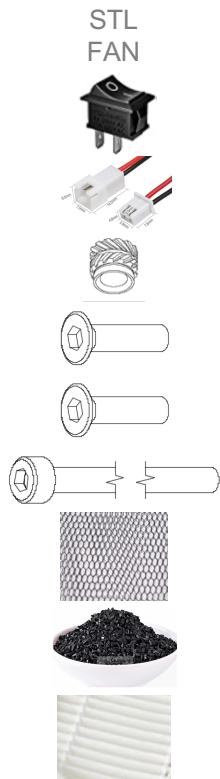
7 Join



8 Back panel

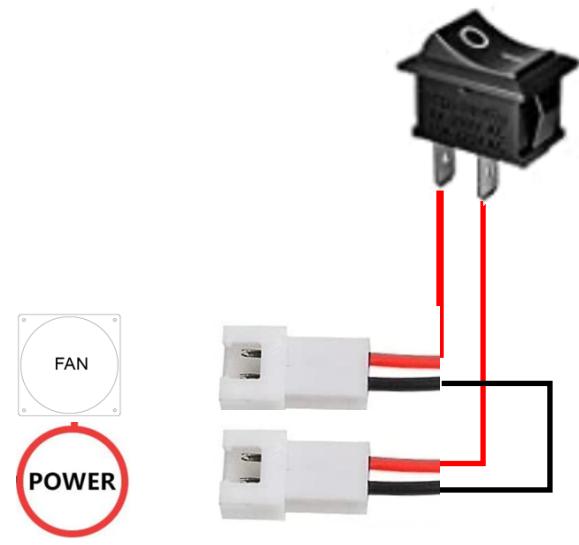


LOGISTICS



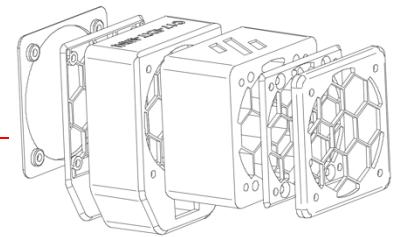
STL FAN	1, 2, 3, 4, 5, 6 and 7 60×60×25, 3800 RPM – 32m ³ /h (Best requirement or more)
	MiMoo On/Off (See Appendix)
	Hyper&Cara JST XH 2.54mm 2 pin, Female (1) (See Appendix)
	M3 Threaded insert (x16)
	M3x6 FHCS (x8)
	M3x12 FHCS (x4)
	M3x50 SHCS or BHCS (x4)
	Tulle 12.5mm × 12.5mm
	Acid-free Activated Carbon
	HEPA 13 Filter, maximum thickness 14mm (Best from vacuum cleaner), 60mm × 60mm

WIRING

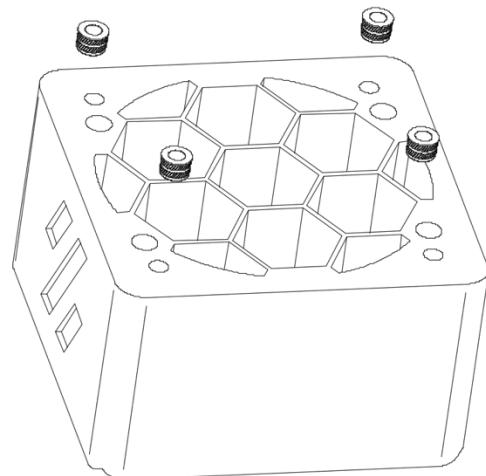


FILTER BOX

STEP 1

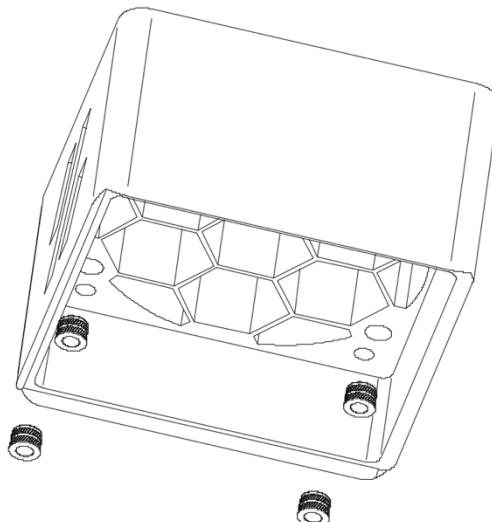


M3



INSTALL HEAT SET INSERTS

Caution: the inserts must be on the side of the outgoing air flow.

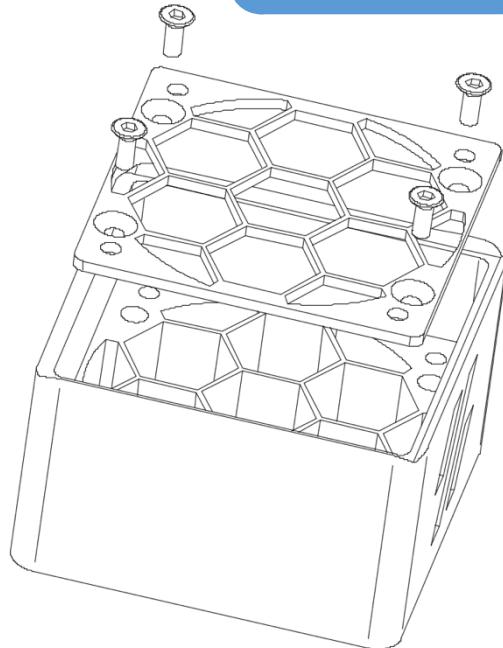


M3



STEP 2

M3×6 FHCS



INSTALL TULLE AND GRID



Be careful cut the tulle after
fixing the grid



TULLE

CUT TULLE

Use a cutter.



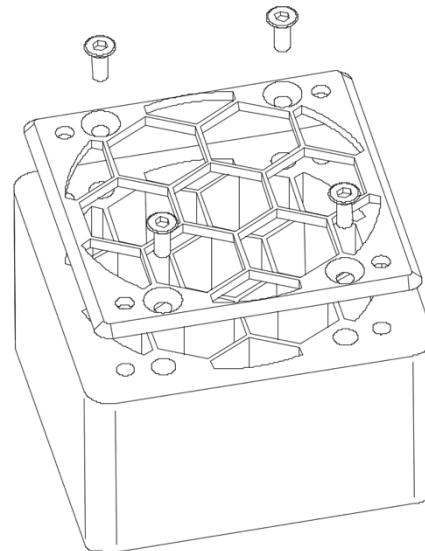
STEP 3

ADD CARBON

Put the carbon in the cells.



M3×6 FHCS



INSTALL TULLE AND GRID



TULLE



CUT TULLE

Use a cutter.

STEP 4

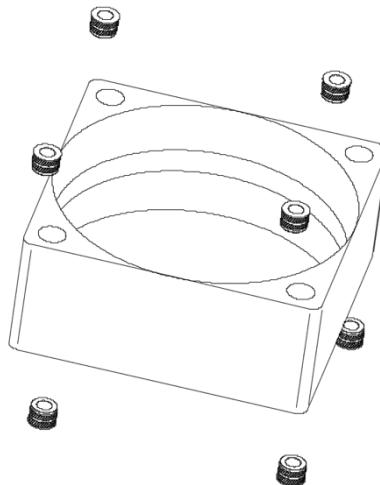
INSTALL HEPA FILTER

HEPA 13 Filter



FAN BOX

STEP 1



M3

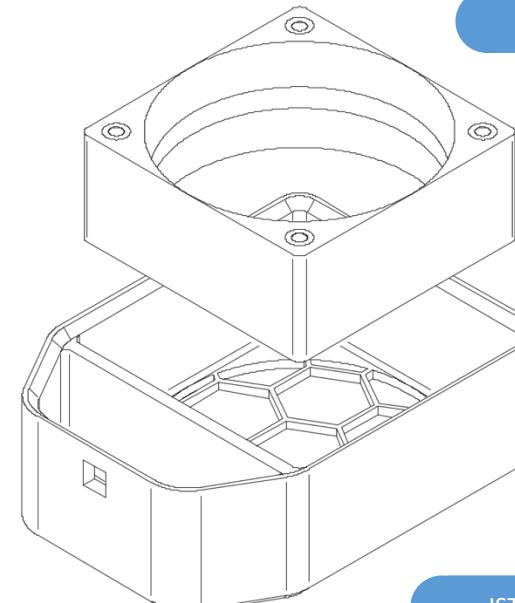
INSTALL HEAT SET INSERTS

Caution: The inserts must be installed from the inside of the fan side. They work in traction.

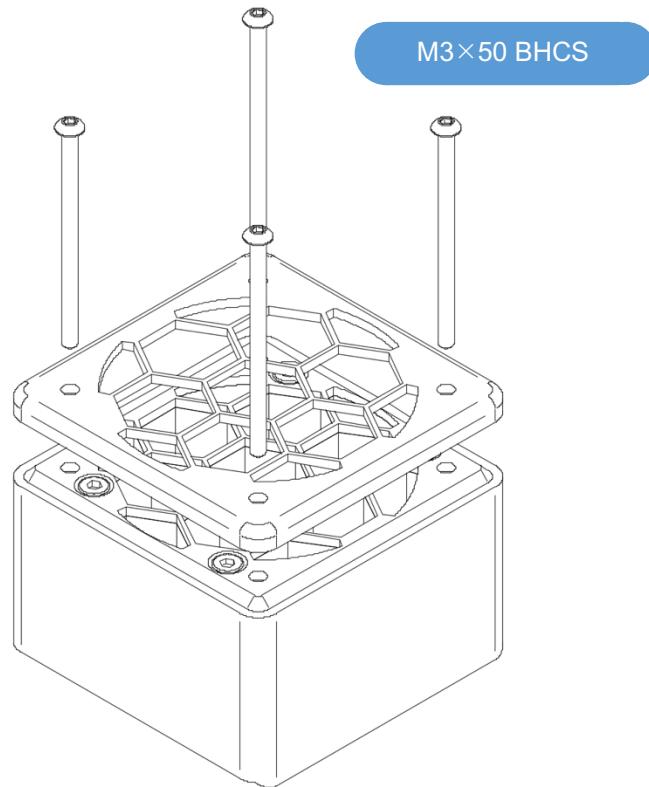
INSTALL FAN & CONNECTOR

There is a hole in the fan box for the fan wire. (View the wiring paragraph)

Caution: The fan must flow toward the grid.



STEP 2

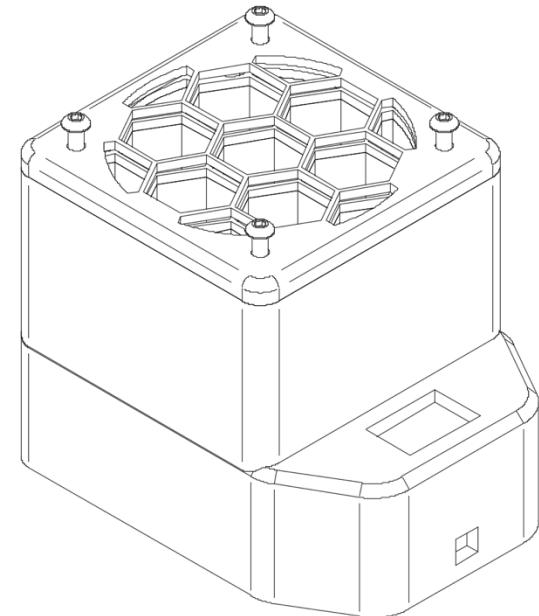


INSTALL SCREW FOR FAN

Caution: The screws must pass through the HEPA filter. Pre-drilled with a cutter.

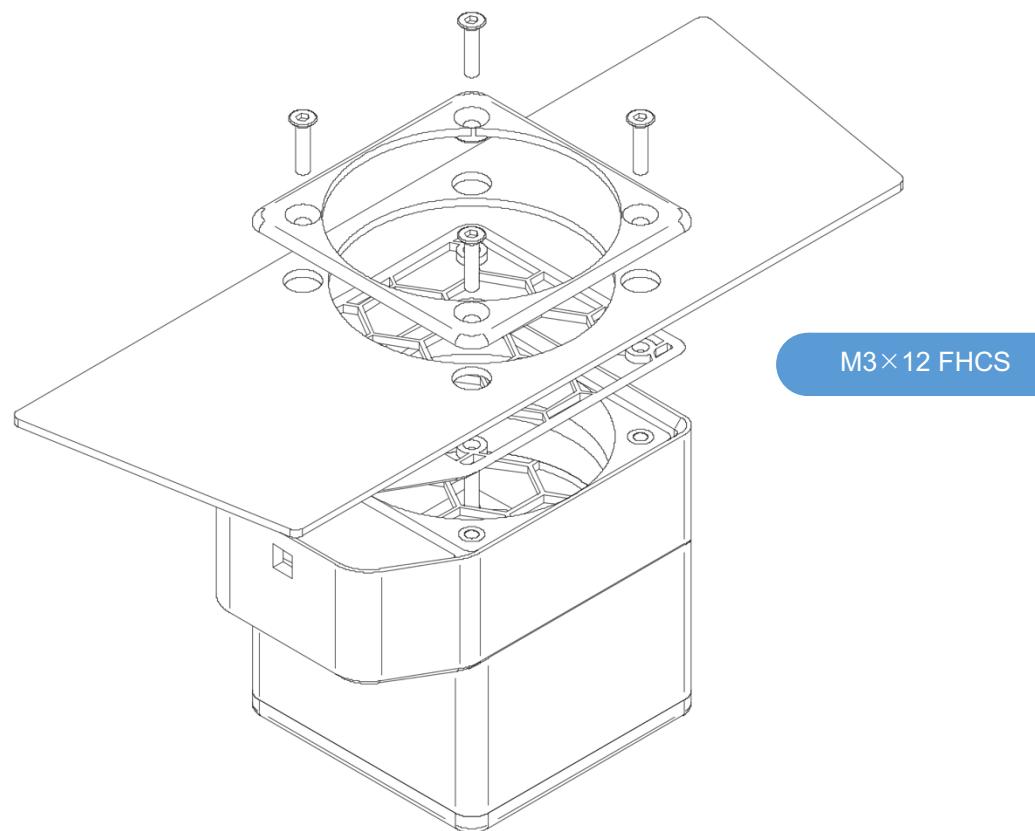
ASSEMBLE THE FAN AND FILTER BOX

There is no need to overtighten.

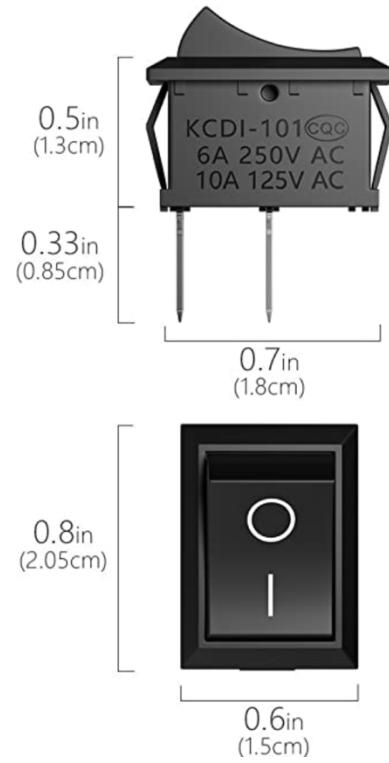


INSTALLATION ON
PRINTER

STEP 1



APPENDIX



Panel Hole Size

