

40mm version - Cooling Fan Duct for E3D v6 (DiiCooler Compatible)

 printaway

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Summary

This part is a remix of the "e3d-duct-small.stl" part from the Cooling Fan Duct for E3D All Metal Hot End V6 by...

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This part is a remix of the "e3d-duct-small.stl" part from [the Cooling Fan Duct for E3D All Metal Hot End V6 by Zeppelinum](#), which is a bracket you can use to mount [this DiiCooler remix onto your E3D hotend](#).

My version of the part allows you to mount a 40mm fan instead of a 30mm fan for hotend cooling. I wanted to mount a quieter 40mm Noctua fan, but found no part on Thingiverse that would fit. Since the original model contains no source, I had to modify it in Blender. The bottom of the fan duct is nearly horizontal instead of tapered to avoid hitting your DiiCooler.

Hardware

The holes should be big enough to fit M3 nuts with short M3 screws to mount your fan. A 40mm Noctua FLX fan comes with these rubbery mounting screws you can just pull through, which you can also use instead.

Printing

- Orientation: Print horizontal, as it imports by default in Cura. (Print it in same orientation as you're going to mount it. The layer lines need to be along the long axis of the model so the arms can flex as you mount it on your hotend.)
- Layer lines / Infill: I used a 0.2mm layer height with 15% infill and 3 wall shells. The model is so dense that it's going to end up being nearly 100% infill in practice if you stick with 3 wall shells and a 0.4mm nozzle.
- Supports: Use them!
- Material: I used eSun PLA+. Seems to be working fine, no deformation. Regular PLA should work too.

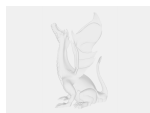
Category: 3D Printer Parts

Model files



e3d-duct-small-40mm.stl

Other files



sources.txt

[Find source .stl files on Thingiverse.com](https://www.thingiverse.com/thing/1111111)

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