UM2 FanMount BLIZZARD (UM2 heaterblock)

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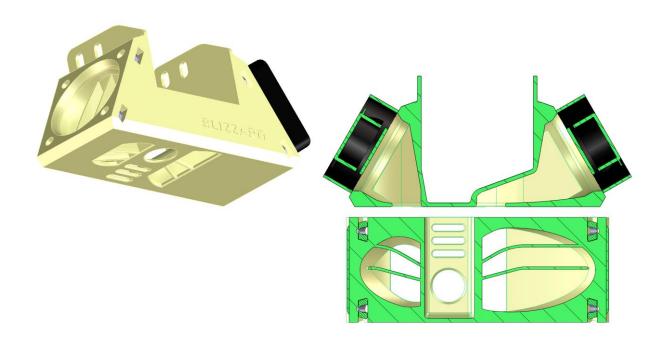
Description

The BLIZZARD is a fanmount replacing the original one of the Ultimaker 2. First of all the BLIZZARD brings much more airfolw from the right fan. But also on the left side, the airflow is guided much more efficient to the nozzle. It reduces vibrations an noice. And in my opinion it looks greate on Ultimaker 2.

What is special

What is special on the BLIZZARD comparing to other fanmount projects for the Ultimaker 2?

- 1. Easy fan mounting using M3 screws and perfect fitting nut-holes. (No need to hold nuts for installing fan.)
- 2. Longer mounting holes for hight adjustment of the fanmount.
- 3. Grid design preventing deforming heatbubbles at the bottom when using ABS. (I used tempratures up to 250 °C without deforming.)
- 4. Shafts for longer straight airflow.
- 5. Optimized outlet for high air volume.
- 6. Changed fan angle to 30 degrees to achiev a direct airflow from fan to nozzle.
- 7. Guiding sails to direct airfolw to the nozzle. They are designed to achiev slightly more pressure to the nozzel without loosing air volume.



Needed additional materials

- 8x M3 screws 15mm-16mm
- 8x M3 nuts
- 8x Washer (only when using 16mm screws)
- Kapton tape
- Small piece of aluminiumpaper

Installing the UM2 FanMount BLIZZARD

1. Print the UM2 FanMount BLIZZARD. (I used ABS with 0.1 mm layer hight and 60% infill. A brimm is recomended. Support isn't needed.)



2. Use some (5-7) layers of Kapton tape to prevent the bottom from tue heat of the heaterblock. I additional used a small piece of aluminiumpaper.



- 3. Unscrew the fans of the original Ultimaker 2 FanMount.
- 4. Dismount the original Ultimaker 2 FanMount.
- 5. Attach the BLIZZARD to the printhead. Adjust the hight of the FanMount so the bottom is far away from the nozzles end. There must be a small gap (1 mm 2 mm) between the heaterblock

and the FanMount.

- 6. Put the M3 nuts in the holes at the front and back of the UM2 FanMount BLIZZARD.
- 7. Attach the fans to the UM2 FanMount BLIZZARD and fasten them with the M3 screws.



8. Test the correct positioning of the FanMount by heating up the nozzle. Check the bottom of the FanMount. There shouldn't be any deforming. (Here's a picture of mine heated up to 250 °C)

