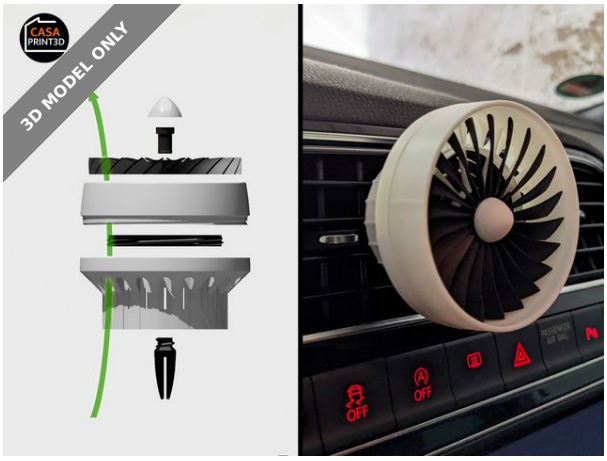


Turbofan aroma diffuser - Car vent mini Jet engine

CasaPrint3D

VIEW IN BROWSER

updated 28. 5. 2024 | published 28. 5. 2024

Summary

This mini jet engine attaches to the car's AC vent. As it spins, it releases the fragrance of the elements inside.

Hobby & Makers > Automotive

Tags: spin mount car air engineering engine fan aerospace coffee aircraft jet spinning vent turbine smell turbo diffuser cabin dashboard caraccessories airconditioning diffusor ac turbofan airfreshener aromatherapy aroma jetengine scent freshener parfume carvent fragance cardiffuser

This miniature jet engine easily attaches to your car's AC vent. As it spins, it releases the fragrance of the elements you place inside its inner container.

Update 11-May-24: Version V2 Added

Important: Using a **heat-resistant material** is critical for this project, especially for the clip that attaches to the vent. Beware of risk of clip deformation after parking under the sun, it may become loose over time

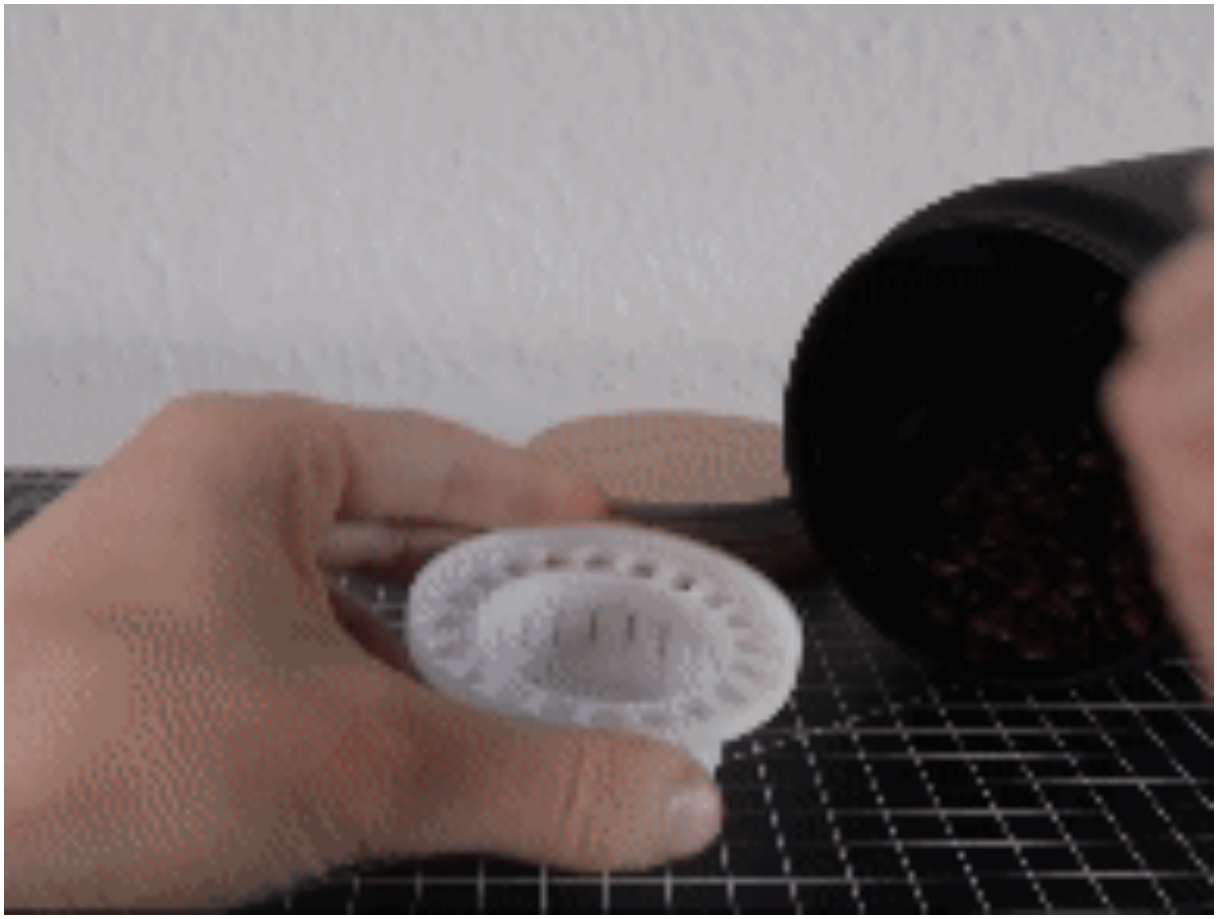
(even with PETG). Temperature inside a car's dashboard can easily exceed 65C (150F) on a typical summer day.

Among the things you can place inside here are some options:

- Freshly roasted coffee beans
- A cotton with a few drops of essential oils
- Aromatic plant leafs (lavender, rosemany, etc) - make sure they don't pass through the lid once it's closed

Utilization

1. Place the aromatic elements inside the recipient and screw the lid on top.
2. Screw the top cover
3. Place the fan and insert the shaft - press until it clicks or hits the bottom. Make sure it is well aligned.
4. Place the tip of the fan and screw the car vent clip on the rear part. In case the tip doesn't stay atttached try scaling it down slightly.



Important:

- Printing with **ABS/ASA** is recommended to withstand summer temperatures

- If the fan is too lose, yo can try scaling up or down the shaft on your slicer
- If the vent clip doesn't work for your car, I have included a second design as well.
- As a general caution: Do not place any ingredient that can be bad for breathing and do not manipulate while driving.
- Remember that this file is for personal use only - Commercial licenses are available in our Patreon

Print Settings:

- 0.16mm layer height for the fan and shaft, the rest can be done at 0.2
- No supports

If you'd like to **support our work**, you can donate here: **[Ko-Fi]** . Your contribution, no matter how small, helps us to continue bringing more 3D models to life. Thank you!

Happy printing!

Model files

V2 10 files



nacelle_top.stl



lid-tight-tolerance.stl



fan_with_brim.stl



tip.stl



body.stl



lid_standard.stl



clip-type3-vertical-slim.stl



clip-type2-vertical-print.stl



clip-type1-flat.stl



shaft.stl

turbofanv2-full-bambu.3mf



turbofanv2-full-all-printers.3mf



turbofanv1-full_all-printers.3mf

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