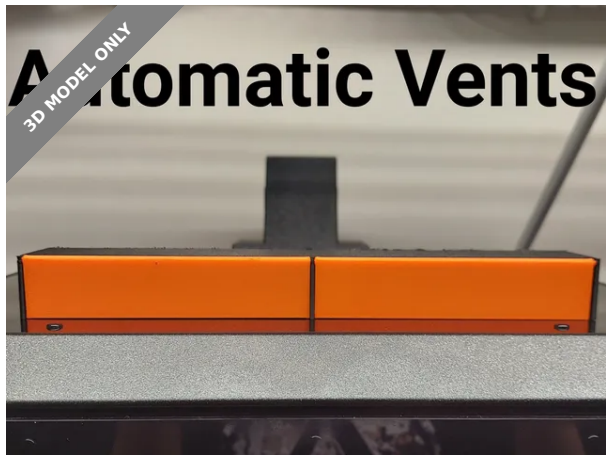




Core One Automatic Top Vent



Layered Precision

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Summary

Fully Automatic Vents for COREONE so you no longer need to manually operate the original ones.

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Tags: [mod](#) [easy](#) [vent](#) [auto](#) [automatic](#) [core](#) [coreone](#)

Take full control of your enclosure's airflow and thermal performance—without lifting a finger. The **Core One Automatic Top Vent Cover** is a smart, zero-maintenance solution designed to work in harmony with your enclosure's rear-mounted fans. As the fans adjust airflow and internal pressure, the top vent passively opens or closes, automatically regulating heat and air exchange.

This pressure-sensitive cover enables your enclosure to reach higher internal temperatures—ideal for materials like ABS, ASA, and Nylon—without needing to operate the manual vent. When the rear fans pull enough air to lower internal pressure, the vent lifts to allow fresh air in; when airflow slows, it reseals to preserve heat.

Features:

Fan-Driven Passive Venting – Works with rear exhaust fans to open and close based on airflow and internal pressure.

Improved Heat Retention – Helps maintain higher, more stable enclosure temps by sealing until airflow is needed.

⚙️ **Zero Electronics** – Fully mechanical operation means no wiring, motors, or maintenance.

Seamless Integration – Drop-in replacement for manual top vents on Core One enclosures.

Draft-Free Printing – Reduces thermal shock and warping on high-temp materials by eliminating uncontrolled venting.

Manual Override – You can still operate the built-in vents

Let your fans do the work. The Core One Passive Top Vent Cover gives you smarter airflow and better prints—automatically.

Vent Body - Support Required

Enable print supports when printing the main vent body to ensure proper formation of overhangs and structural fit.

Assembly Instructions:

Flap Connection

Use short pieces of filament as hinge pins by inserting them into the ends of each flap. Align both flaps at the center where they interlock to form a complete seal. You may need to carefully clean or widen the hinge holes using a drill or similar tool to ensure the filament fits smoothly.

Model files

vent-cover.3mf



vent-flaps.3mf



clips.3mf



📄 (Keeps the vent lined up, they push onto the vent on the sides)

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