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Corsair CC-9011309-WW

CORSAIR Frame 5000D RS ARGB Modular Mid-Tower PC Case User Manual

Model: CC-9011309-WW | **Brand:** Corsair

1. INTRODUCTION AND OVERVIEW

The CORSAIR Frame 5000D RS ARGB is a modular mid-tower PC case designed for high-performance builds, offering extensive cooling options and versatile component compatibility. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your PC case.



Figure 1.1: Front-side view of the CORSAIR Frame 5000D RS ARGB PC Case, showcasing its sleek black design and perforated front panel with illuminated ARGB fans.

Key Features:

- **Modular Design:** The internal side panel near the motherboard tray can be used as a cable cover or removed for additional fan mounting, offering flexible cooling and cable management options.
- **Optimized Airflow:** Features a 3D Y-Pattern Airflow Panel on the front, designed for high airflow and minimal restriction, ensuring efficient cooling.

- **Extensive Radiator Support:** Supports a top-mounted 420mm radiator, with additional room for 360mm radiators on the front or side.
- **Pre-installed ARGB Fans:** Includes four RS140 ARGB PWM daisy-chainable fans for effective cooling and customizable lighting, controllable via a 4-pin PWM connector and a +5V ARGB connector on your compatible motherboard.
- **Reverse Connection Motherboard Compatibility:** Validated for ASUS BTF, MSI Project Zero, and Gigabyte Project Stealth motherboards, providing convenient cable cutouts and tie-downs for tidy builds.

CORSAIR FRAME 5000D RS ARGB

Combining the customization of the FRAME modular case system, the flexibility of InfiniRail, and 4x RS140 ARGB fans, this case is as easy to build in as it is versatile.



Figure 1.2: An illustrative image highlighting the CORSAIR FRAME 5000D RS ARGB's modularity and inclusion of four RS140 ARGB fans, emphasizing its ease of build and versatility.

2. SETUP AND INSTALLATION

This section outlines the general steps for installing your PC components into the CORSAIR Frame 5000D RS ARGB case. Always refer to your component manuals for specific installation instructions.

2.1 Unboxing and Initial Inspection

1. Carefully remove the PC case from its packaging.
2. Inspect the case for any signs of damage during transit.
3. Remove all internal packaging materials and accessories.

2.2 Component Installation

The 5000D RS ARGB case offers a modular design for flexible component placement and cooling solutions.



Figure 2.1: The Frame Modular Case System allows for significant customization and adaptation to various build needs, shown here with different color variants.

- **Motherboard Installation:** Install your ATX, Micro ATX, or Extended ATX motherboard onto the standoffs. Ensure proper alignment and secure with screws. The case supports reverse connection motherboards like ASUS BTF, MSI Project Zero, and Gigabyte Project Stealth for cleaner cable management.

SUPPORTS REVERSE CONNECTION MOTHERBOARDS

Designed for ASUS BTF, MSI Project Zero, and Gigabyte Project Stealth reverse motherboards with connector and cable cutouts and tie-downs to keep things tidy.



Figure 2.2: Close-up view of a motherboard designed for reverse connection, illustrating how the CORSAIR 5000D RS ARGB case accommodates such designs for improved cable routing.

- **Power Supply Unit (PSU) Installation:** Mount your PSU in the designated compartment, typically at the bottom rear of the case.
- **Storage Drive Installation:** Install your 2.5-inch SSDs and 3.5-inch HDDs into the drive bays.
- **Graphics Card (GPU) Installation:** Install your graphics card into the PCIe slot. The case is built for expansion, accommodating GPUs up to 450mm long.

BUILT FOR EXPANSION

Slightly wider, longer, and taller than the previous model, with more internal space for larger GPUs and cooling components.

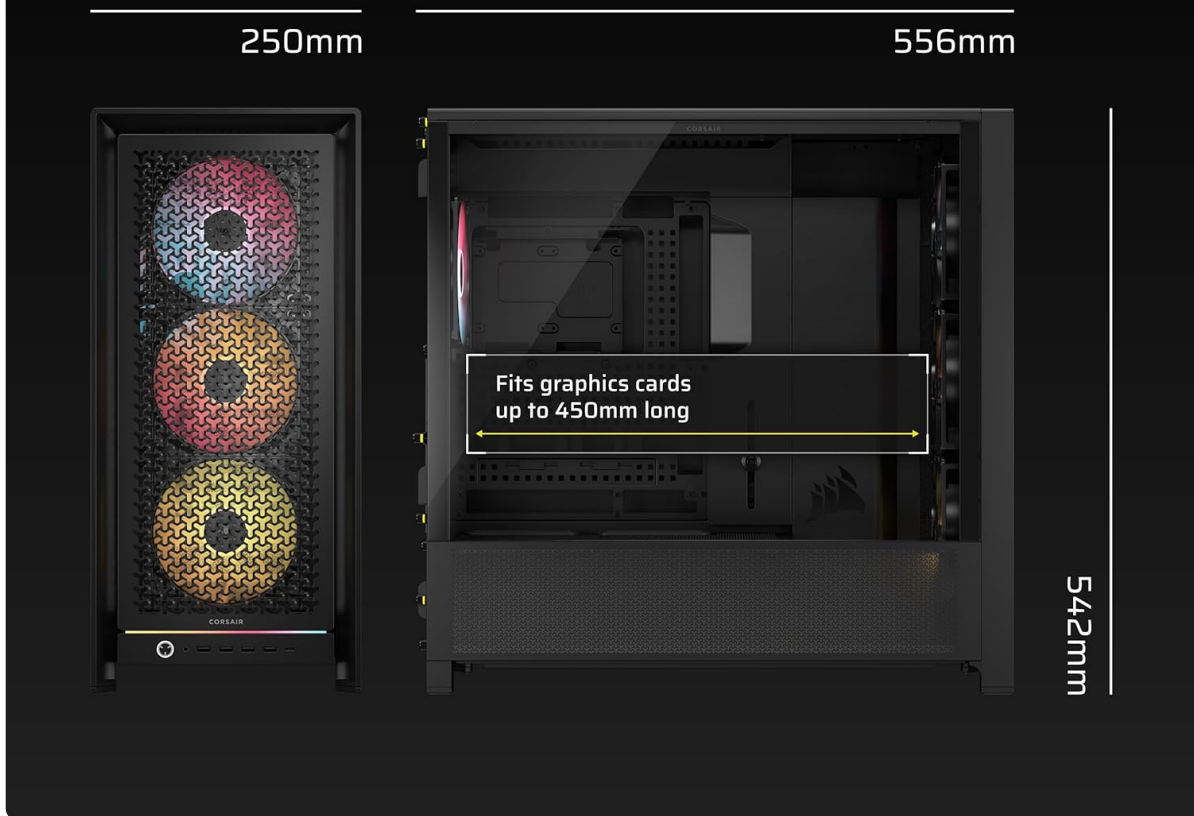


Figure 2.3: Diagram showing the dimensions of the CORSAIR 5000D RS ARGB case (250mm width, 556mm depth, 542mm height) and its capacity to fit graphics cards up to 450mm in length.

2.3 Cooling System Setup

The 5000D RS ARGB case is designed for superior cooling performance.

- **Fan Mounting:** Utilize the InfiniRail™ fan mounting system to easily slide and mount fans up to 200mm (140mm in the roof) wherever needed for targeted airflow. The case comes with four RS140 ARGB fans pre-installed.

INFINIRAIL™ FAN MOUNTING SYSTEM

Simply slide the rail to mount fans up to 200mm (140mm in the roof) wherever you like, providing targeted airflow.

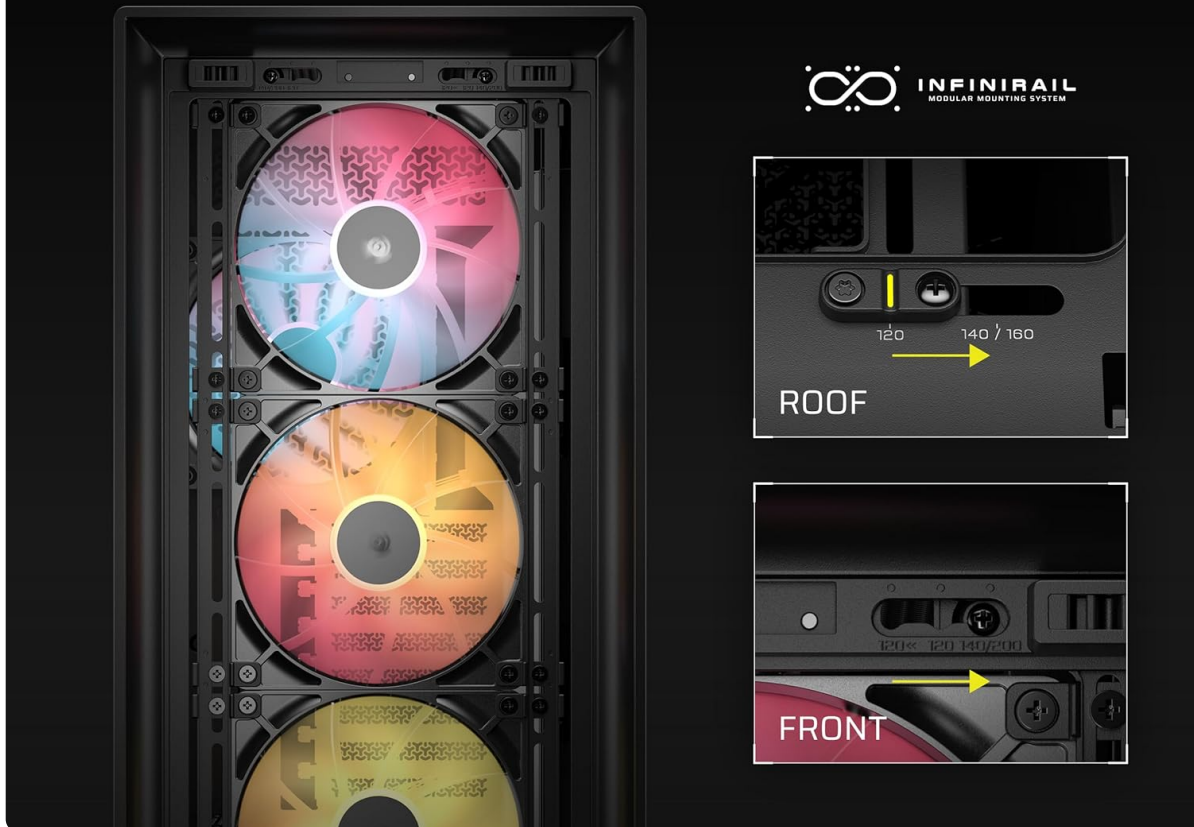


Figure 2.4: Illustration of the InfiniRail™ Fan Mounting System, demonstrating how fans can be easily slid and positioned on the roof and front panels for optimal airflow.

- **Radiator Installation:** The case supports extensive radiator configurations, including a top-mounted 420mm radiator and 360mm radiators on the front or side.

3D Y-PATTERN AIRFLOW PANEL

Optimized for high airflow, the steel front panel is perforated in three dimensions providing a low-obstruction path for cool air.

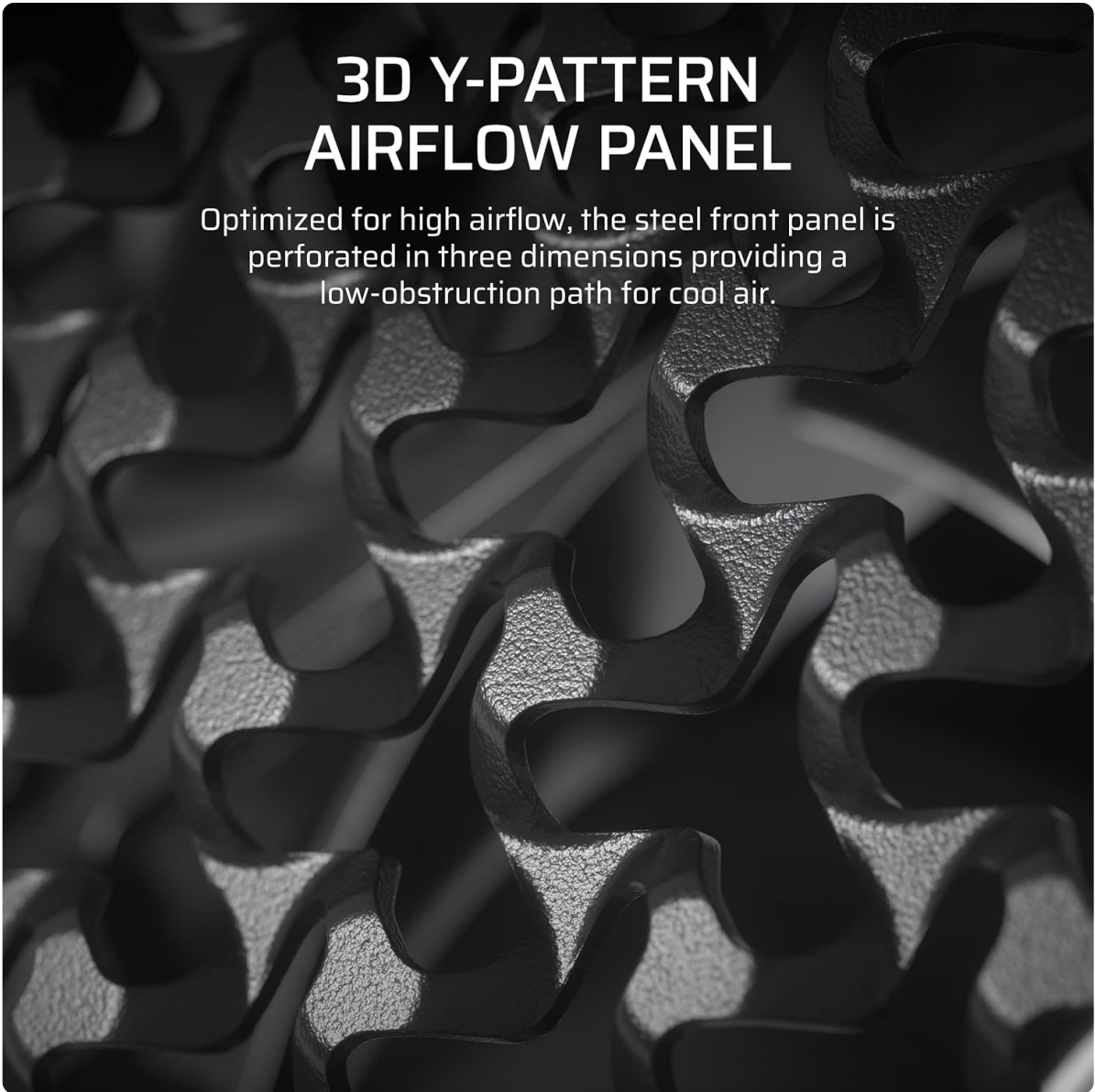


Figure 2.6: Close-up view of the 3D Y-Pattern Airflow Panel, showcasing its perforated design optimized for high airflow and minimal restriction.

2.4 Cable Management

Utilize the ample cable routing channels and tie-down points behind the motherboard tray to ensure clean cable management. The internal side panel can also serve as a cable cover.

3. OPERATING YOUR PC CASE

Once your components are installed, operating the PC case primarily involves utilizing its front I/O ports and managing the ARGB lighting of the included fans.

3.1 Front I/O Connectivity

The front panel provides convenient access to essential ports:

- **Power Button:** To power on/off your system.
- **3.5mm Combo Audio Jack:** For connecting headphones or headsets.
- **4x USB 3.2 Gen 1 Type-A Ports:** For connecting various USB devices.

- **1x USB 3.2 Gen 2 Type-C Port:** For high-speed data transfer and device connectivity.



Figure 3.1: Detailed view of the versatile front I/O panel, showing the Power Button, 3.5mm Combo Audio jack, four USB 3.2 Gen 1 Type-A ports, and one USB 3.2 Gen 2 Type-C port.

3.2 ARGB Fan Control

The four included RS140 ARGB fans are daisy-chainable and connect to your compatible motherboard. You can control their lighting effects and fan speed through your motherboard's software (e.g., ASUS Aura Sync, MSI Mystic Light, Gigabyte RGB Fusion) or CORSAIR's iCUE software if connected to a compatible CORSAIR controller (sold separately).

4. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your PC case and components.

4.1 Dust Filter Cleaning

The CORSAIR 5000D RS ARGB case is equipped with removable dust filters to prevent dust buildup inside

your system. It is recommended to clean these filters every 1-3 months, depending on your environment.

1. Power off your PC and unplug it from the wall outlet.
2. Locate and remove the dust filters (typically found on the front, top, and bottom of the case).
3. Gently tap the filters to dislodge loose dust, or use a soft brush or vacuum cleaner with a brush attachment to remove accumulated dust.
4. For heavily soiled filters, you may rinse them with water (ensure they are completely dry before reinstallation).
5. Reinstall the clean dust filters.

4.2 General Case Cleaning

Wipe down the exterior of the case with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials that could damage the finish.

5. TROUBLESHOOTING

This section provides general troubleshooting tips for common issues you might encounter with your PC case.

5.1 System Not Powering On

- **Check Power Connections:** Ensure the power supply unit (PSU) is properly connected to the wall outlet and the motherboard. Verify all internal power cables (24-pin ATX, CPU, GPU) are securely seated.
- **Front Panel Connectors:** Double-check that the front panel power switch connector is correctly attached to the motherboard's front panel header. Refer to your motherboard manual for the correct pinout.
- **PSU Switch:** Ensure the power switch on the back of the PSU is in the 'ON' position.

5.2 Fans Not Spinning or ARGB Not Working

- **Fan Connections:** Verify that the fan power cables (PWM) are securely connected to the motherboard fan headers.
- **ARGB Connections:** Ensure the +5V ARGB connectors are properly connected to the motherboard's ARGB headers. Note that these are different from +12V RGB headers.
- **Software Control:** Check your motherboard's BIOS/UEFI settings and operating system software (e.g., iCUE, motherboard RGB software) to ensure fans and ARGB are enabled and configured correctly.

5.3 USB Ports Not Functioning

- **Internal USB Headers:** Confirm that the internal USB 3.0 (for Type-A) and USB 3.2 Gen 2 (for Type-C) cables from the front panel are correctly plugged into the corresponding headers on your motherboard.
- **Driver Issues:** Ensure your motherboard's chipset and USB drivers are up to date.

If you continue to experience issues, please refer to the Warranty and Support section for further assistance.

6. SPECIFICATIONS

Feature	Specification
Model Number	CC-9011309-WW
Case Type	Mid Tower
Color	Black
Dimensions (L x W x H)	55.6 x 25 x 54.2 cm (21.9 x 9.8 x 21.3 inches)
Weight	12.7 kg (27.9 lbs)
Motherboard Compatibility	Micro ATX, ATX, Extended ATX
GPU Clearance	Up to 450mm
Radiator Support (Front)	Up to 360mm
Radiator Support (Top)	Up to 420mm
Radiator Support (Side)	Up to 360mm
Included Fans	4x RS140 ARGB PWM Fans
Front I/O Ports	1x Power Button, 1x 3.5mm Combo Audio, 4x USB 3.2 Gen 1 Type-A, 1x USB 3.2 Gen 2 Type-C

7. WARRANTY AND SUPPORT

For warranty information and technical support regarding your CORSAIR Frame 5000D RS ARGB PC Case, please refer to the official CORSAIR website or contact CORSAIR customer service directly.

Official CORSAIR Website: www.corsair.com

Please have your product model number (CC-9011309-WW) and proof of purchase ready when contacting support.