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Corsair CO-9050185-WW

CORSAIR RS120 ARGB 120mm PWM Fans Triple Pack Instruction Manual

Model: RS120 (CO-9050185-WW)

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1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your CORSAIR RS120 ARGB 120mm PWM Fans Triple Pack. These fans are designed to provide efficient cooling and customizable lighting for your PC system.

Package Contents

- 3x CORSAIR RS120 ARGB 120mm PWM Fans
- Mounting Screws
- Documentation



Image: The CORSAIR RS120 ARGB 120mm PWM Fans Triple Pack, showing three fans and their retail packaging.

2. SAFETY INFORMATION

Please read and follow all safety instructions before installing or operating the fans. Failure to do so may result in damage to the product or personal injury.

- Ensure your computer system is powered off and unplugged from the wall outlet before installation.
- Handle components with care to avoid damage.
- Do not attempt to disassemble or modify the fans. This will void the warranty.
- Keep out of reach of children.
- Use only with compatible motherboard headers (+5V ARGB and 4-pin PWM).

3. SETUP & INSTALLATION

The CORSAIR RS120 ARGB fans feature a daisy-chain connection system for simplified wiring.

3.1 Mounting the Fans

1. Identify the desired mounting location within your PC case (e.g., front intake, rear exhaust, radiator).
2. Position the fan(s) in the chosen location, ensuring correct airflow direction. Arrows on the fan frame typically indicate airflow direction.
3. Secure each fan using the provided mounting screws. Do not overtighten.

3.2 Daisy-Chain Connections

The RS120 fans are designed for daisy-chaining, allowing multiple fans to be controlled via a single motherboard header for both PWM (fan speed) and ARGB (lighting).



Image: Illustration of the daisy-chain connectors on the CORSAIR RS120 ARGB fans, showing how one fan connects to the next.

1. **PWM Connection:** Connect the 4-pin PWM cable from the first fan to an available 4-pin PWM fan header on your motherboard. Subsequent fans can be connected to the PWM output of the previous fan.

2. **ARGB Connection:** Connect the +5V ARGB cable from the first fan to an available +5V ARGB header on your motherboard. Subsequent fans can be connected to the ARGB output of the previous fan. Ensure you use a +5V ARGB header, not a +12V RGB header, to prevent damage.

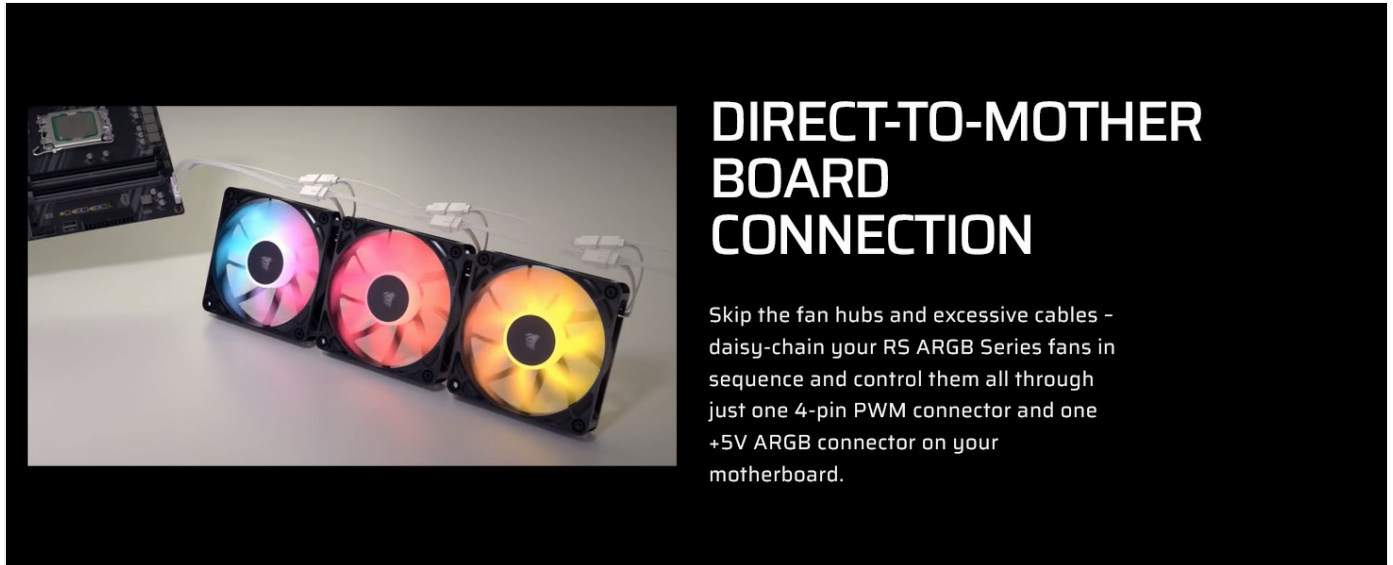


Image: Three CORSAIR RS ARGB fans daisy-chained and connected directly to a motherboard, illustrating the streamlined connection process.

4. OPERATION

Once installed, the CORSAIR RS120 ARGB fans offer precise control over fan speed and lighting.

4.1 Fan Speed Control (PWM)

The fans utilize PWM (Pulse Width Modulation) for precise speed control. You can adjust fan speeds up to 2,100 RPM through your motherboard's BIOS settings or compatible software. This allows for balancing cooling performance and noise levels.

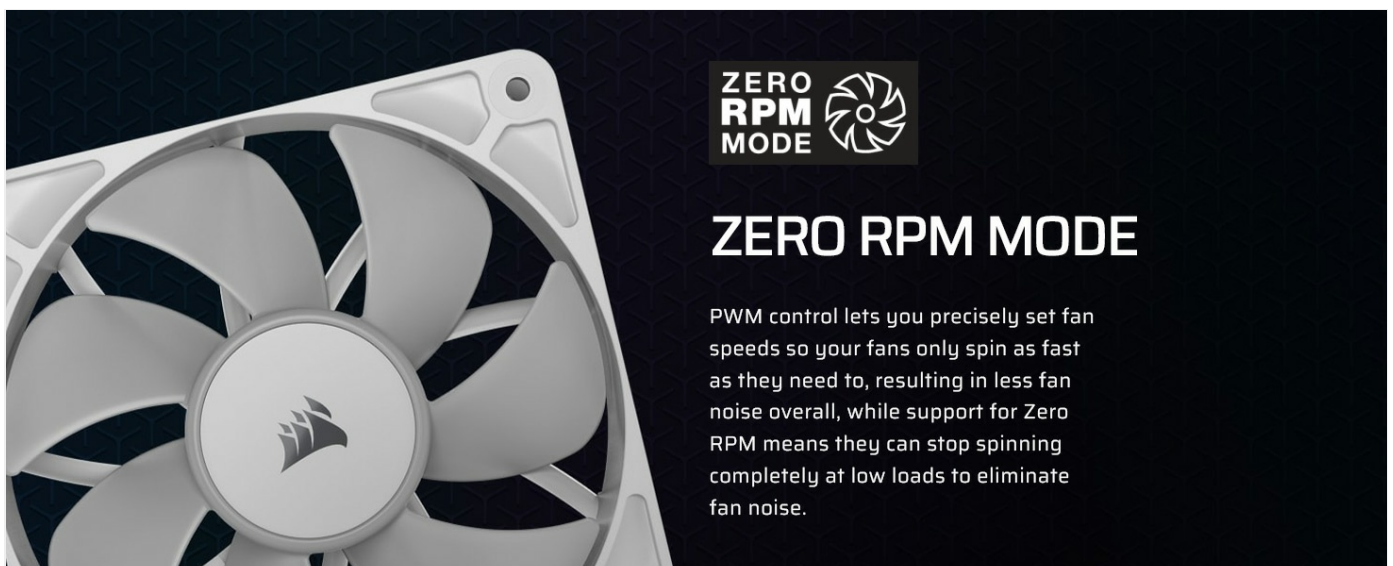


Image: A CORSAIR RS120 ARGB fan highlighting the Zero RPM Mode feature, which allows fans to stop spinning at low loads for silent operation.

Zero RPM Mode

When configured through your motherboard's software or BIOS, Zero RPM mode allows the fans to stop spinning completely at low temperatures or light loads, providing silent operation until cooling is required.

4.2 ARGB Lighting Control

Each fan is equipped with eight addressable RGB LEDs. Lighting effects can be customized using your motherboard's compatible ARGB software suite. This includes software such as ASUS Aura Sync, MSI Mystic Light Sync, ASRock Polychrome Sync, and Gigabyte RGB Fusion.



Image: A motherboard with CORSAIR RS ARGB fans connected and displaying various lighting effects, demonstrating easy customization via motherboard software.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your CORSAIR RS120 ARGB fans.

- **Cleaning:** Periodically clean the fan blades and frame to remove dust buildup. Use compressed air or a soft brush. Ensure the fans are powered off before cleaning.
- **Bearing Longevity:** The Magnetic Dome bearings are designed for quiet operation and extended lifespan, requiring no user maintenance.



Image: A cutaway diagram illustrating the Magnetic Dome Bearing technology, which contributes to quiet operation and increased fan longevity.

6. TROUBLESHOOTING

If you encounter issues with your CORSAIR RS120 ARGB fans, refer to the following common solutions:

Issue	Possible Cause	Solution
Fans not spinning	Incorrect PWM connection, insufficient power, Zero RPM mode active.	Verify 4-pin PWM cables are securely connected to the motherboard. Check motherboard BIOS/software for fan speed settings and ensure Zero RPM mode is not preventing spin at current temperatures.
ARGB lighting not working	Incorrect ARGB connection, incompatible header, software issue.	Ensure +5V ARGB cables are securely connected to a compatible +5V ARGB header (3-pin, 5V), not a +12V RGB header (4-pin, 12V). Verify ARGB software is installed and configured correctly. Check for loose daisy-chain connections between fans.
Excessive noise	High RPM, loose mounting, obstruction.	Adjust fan speed settings in BIOS/software to a lower RPM. Ensure fans are securely mounted and not vibrating against the case. Check for any cables or objects obstructing the fan blades.

7. SPECIFICATIONS

Detailed technical specifications for the CORSAIR RS120 ARGB 120mm PWM Fans:

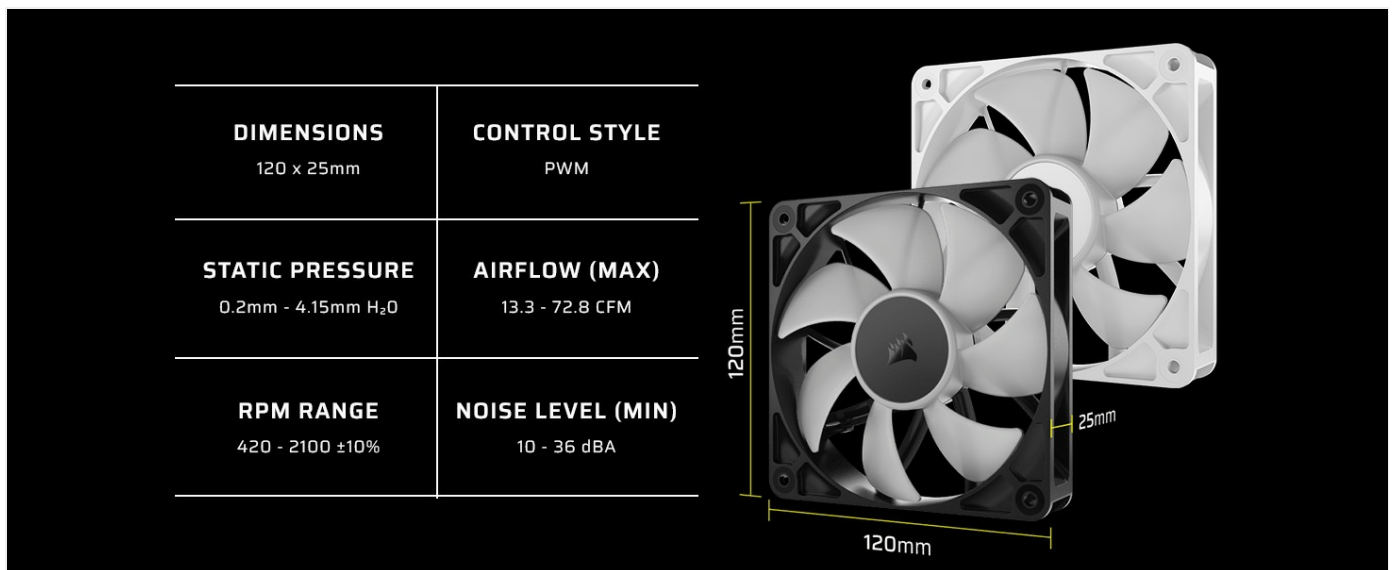


Image: A visual representation of the CORSAIR RS120 fan specifications, including physical dimensions and performance metrics.

Feature	Detail
Brand	Corsair
Model Number	CO-9050185-WW
Fan Size	120mm x 120mm x 25mm
Power Connector Type	4-Pin PWM
ARGB Connector Type	+5V 3-Pin ARGB

Feature	Detail
Voltage	12 Volts
Wattage	4.8 watts
Cooling Method	Air Fan
Compatible Devices	Desktop PC
Noise Level (Max)	36 dB
Material	Copper
Maximum Rotational Speed	2100 RPM
Air Flow Capacity (Max)	72.8 CFM
Static Pressure (Max)	4.15 mm-H ₂ O
Bearing Type	Magnetic Dome Bearing
LEDs per Fan	8 ARGB LEDs

Note: Static pressure range is 0.2mm - 4.15mm H₂O. The maximum value is listed above.

8. WARRANTY & SUPPORT

CORSAIR products are backed by a limited warranty. For detailed warranty information, technical support, and customer service, please visit the official CORSAIR website or contact their support team.

You can find additional resources and contact information on the [Corsair Store on Amazon](#).

