

## Corsair RS120

# CORSAIR RS120 120mm PWM Fan Instruction Manual

Model: RS120

## INTRODUCTION

The CORSAIR RS120 120mm PWM Fan is designed to enhance your PC's cooling performance with efficient airflow and quiet operation. Featuring a daisy-chain connection system, multiple fans can be controlled through a single 4-pin PWM header on your motherboard, simplifying cable management. This fan is equipped with CORSAIR AirGuide technology for focused airflow and Magnetic Dome bearings for reduced noise and extended lifespan. The Zero RPM mode allows for silent operation under low thermal loads.

## Key Features:

- **Streamlined Fan Connections:** Daisy-chain multiple fans using a single 4-pin PWM connector.
- **Precise PWM Speeds:** Adjustable fan speeds up to 2,100 RPM, delivering up to 72.8 CFM airflow.
- **CORSAIR AirGuide Technology:** Anti-vortex vanes direct airflow for concentrated cooling, ideal for radiators and heatsinks.
- **High Static Pressure:** Optimized for use as radiator fans with 4.15mm-H<sub>2</sub>O static pressure.
- **Quiet Operation with Magnetic Dome Bearing:** Minimizes noise and friction for increased longevity.

## 1. SETUP AND INSTALLATION

Follow these steps to properly install your CORSAIR RS120 PWM fan into your PC system.

### 1.1 Unpacking and Component Check

Carefully unpack the fan and ensure all components are present. The package typically includes the fan unit and mounting screws.



*Image: The CORSAIR RS120 120mm PWM Fan, showing its white blades and black frame.*

## 1.2 Mounting the Fan

1. Identify the desired mounting location within your PC case (e.g., front intake, rear exhaust, top exhaust, or on a radiator).
2. Align the fan with the screw holes on your case or radiator. Ensure the fan is oriented to provide the desired airflow direction (typically, the side with the frame supports points towards the exhaust direction).
3. Secure the fan using the provided mounting screws. Do not overtighten.



# RS120

HIGH-PERFORMANCE DAISY-CHAIN FANS

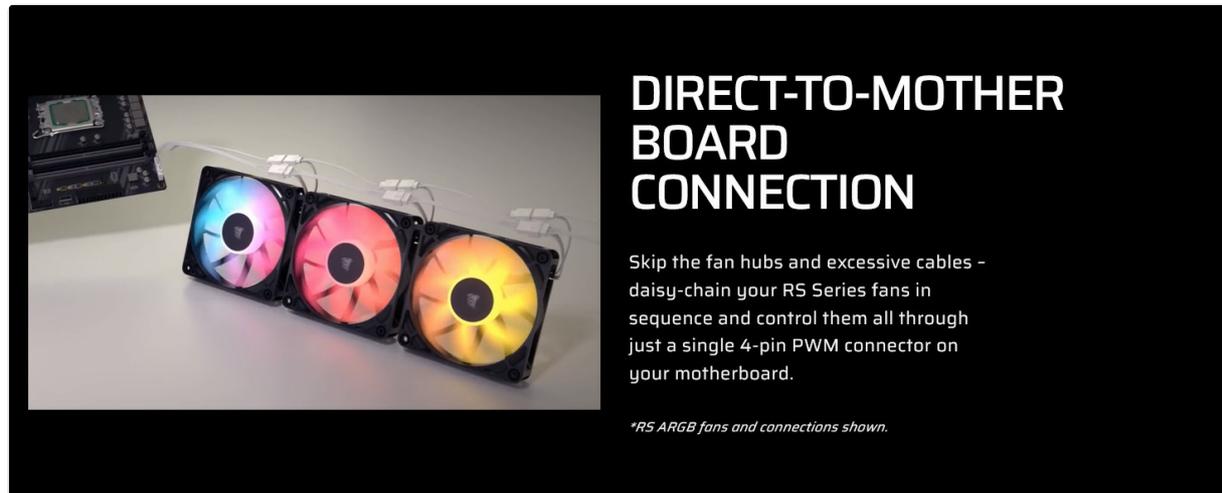


*Image: Multiple CORSAIR RS120 fans installed in a PC case, illustrating typical mounting positions.*

## 1.3 Connecting the Fan

The CORSAIR RS120 fans feature a daisy-chain connection system for simplified cable management.

1. Locate the 4-pin PWM connector on your motherboard.
2. Connect the primary fan's 4-pin PWM cable to the motherboard header.
3. If installing multiple RS120 fans, connect the daisy-chain cable from the first fan to the next fan, and so on. This allows all connected fans to be controlled via a single motherboard header.
4. Ensure all connections are secure.



*Image: A visual representation of the daisy-chain connection for multiple CORSAIR RS120 fans, connecting to a single motherboard PWM header.*

## 2. OPERATING INSTRUCTIONS

The CORSAIR RS120 fan offers flexible control over its operation to balance cooling performance and noise levels.

### 2.1 PWM Control

The fan utilizes Pulse-Width Modulation (PWM) technology, allowing your motherboard or fan controller to precisely adjust fan speeds based on system temperature. This ensures optimal cooling when needed and quieter operation during lighter loads.

- Access your motherboard's BIOS/UEFI settings or use compatible fan control software (e.g.,

CORSAIR iCUE, if applicable, or motherboard manufacturer's software) to configure fan curves.

- Adjust the fan speed profiles to match your cooling requirements and noise preferences.

## 2.2 Zero RPM Mode

For ultimate silence during low thermal loads, the RS120 fan supports Zero RPM mode. When configured, the fan blades will stop spinning completely until the system temperature reaches a predefined threshold, eliminating fan noise entirely.

- Enable Zero RPM mode through your motherboard's BIOS/UEFI settings or fan control software.
- Monitor your system temperatures to ensure adequate cooling even in Zero RPM mode.



*Image: A CORSAIR RS120 fan highlighting the Zero RPM mode feature, indicating silent operation at low loads.*

## 3. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your CORSAIR RS120 fans.

### 3.1 Cleaning

1. Periodically inspect the fan blades and frame for dust accumulation.
2. Gently clean the fan blades and frame using a soft brush, compressed air, or a microfiber cloth.
3. Ensure the fan is powered off and disconnected from the power source before cleaning.
4. Avoid using liquid cleaners directly on the fan or its electrical components.

### 3.2 Connection Check

Occasionally check all fan connections to the motherboard and between daisy-chained fans to ensure they are secure and free from obstruction.

## 4. TROUBLESHOOTING

If you encounter issues with your CORSAIR RS120 fan, refer to the following common troubleshooting steps:

### 4.1 Excessive Noise

- **Check Fan Speed:** Ensure fan speeds are not set too high in your BIOS/UEFI or fan control software. Adjust fan curves to a lower RPM if noise is a concern.
- **Inspect for Obstructions:** Verify that no cables or other components are touching the fan blades, causing rattling or buzzing sounds.
- **Dust Accumulation:** Clean the fan blades and frame as described in the Maintenance section.
- **Mounting:** Ensure the fan is securely mounted and screws are not overtightened, which can sometimes cause vibrations.

## 4.2 Insufficient Cooling

- **Airflow Direction:** Confirm the fan is installed with the correct airflow direction for its position (e.g., intake for front/bottom, exhaust for rear/top).
- **Fan Speed:** Increase fan speeds in your BIOS/UEFI or fan control software to provide more airflow.
- **Dust Filters:** If your case has dust filters, ensure they are clean and not restricting airflow.
- **System Configuration:** Ensure other cooling components (CPU cooler, GPU cooler) are functioning correctly.

## 5. SPECIFICATIONS

Feature	Detail
Brand	Corsair
Model	RS120
Fan Size	120mm
Power Connector Type	4-Pin PWM
Voltage	12 Volts
Wattage	4.8 watts
Cooling Method	Fan
Compatible Devices	Desktop
Noise Level	36 Decibels (Max)
Material	Copper (internal motor components)
Maximum Rotational Speed	2100 RPM
Air Flow Capacity	72.8 Cubic Feet Per Minute (CFM)
Static Pressure	4.15mm-H2O
Bearing Type	Magnetic Dome Bearing
UPC	840006684244

## 6. WARRANTY INFORMATION

The CORSAIR RS120 120mm PWM Fan comes with a **5 Year Manufacturer Warranty**. Please retain

your proof of purchase for warranty claims. For detailed terms and conditions, visit the official Corsair website or contact customer support.

## 7. CUSTOMER SUPPORT

For further assistance, technical support, or warranty inquiries, please contact Corsair customer support through their official website:

- [Corsair Support Website](#)

## 8. OFFICIAL PRODUCT VIDEO

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*Video: An official overview of the CORSAIR RS Series Fans, showcasing their features and design. This video provides a visual guide to the fan's capabilities and aesthetic.*