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Cooler Master RR-212S-25PZ-R1

Cooler Master Hyper 212 PRO ARGB CPU Air Cooler User Manual

Model: RR-212S-25PZ-R1

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Cooler Master Hyper 212 PRO ARGB CPU Air Cooler. Designed for optimal thermal performance, this cooler features four heat pipes, a 120mm PWM fan with ARGB lighting, and broad compatibility with both AMD and Intel platforms. Please read this manual thoroughly before installation and use to ensure proper functionality and longevity of your product.

2. Package Contents

Verify that all components listed below are present in your package:

- Heat Sink
- 120mm PWM ARGB Fan
- Mounting Brackets for AMD (Ryzen AM5/AM4) and Intel (LGA1851/1700) sockets
- Thermal Paste (CryoFuze)
- Fan Clips
- Installation Hardware (screws, standoffs, backplate)



Image: All components included with the Cooler Master Hyper 212 PRO ARGB CPU Air Cooler, including the heatsink, fan, mounting hardware, and thermal paste.

3. Setup and Installation

Proper installation is crucial for optimal cooling performance. Follow these steps carefully.

3.1. Prepare Your Motherboard

- Identify your CPU socket type (AMD AM5/AM4 or Intel LGA1851/1700).
- Install the appropriate backplate and standoffs onto your motherboard.



Image: Illustration showing the redesigned mounting brackets for AMD Ryzen AM5/AM4 and Intel LGA 1851/1700 platforms, simplifying installation.

3.2. Apply Thermal Paste

- Clean the CPU surface and the cooler's base with isopropyl alcohol.
- Apply a small amount of the provided CryoFuze thermal paste to the center of your CPU. A pea-sized dot is generally sufficient.



Image: A tube of Cooler Master CryoFuze thermal paste being applied to a CPU, highlighting its wide temperature range for stable performance.

3.3. Mount the Heatsink

- Carefully place the heatsink onto the CPU, aligning the mounting holes with the standoffs.
- Secure the heatsink with the appropriate screws, tightening them in a diagonal pattern until snug. Do not overtighten.

3.4. Install the Fan

- Attach the 120mm PWM ARGB fan to the heatsink using the provided fan clips. Ensure the fan is oriented to push air through the heatsink towards the rear of your case.
- Connect the 4-pin PWM fan cable to the CPU_FAN header on your motherboard.
- Connect the ARGB cable to a compatible 3-pin ARGB header on your motherboard or an ARGB controller.



Image: The Cooler Master Hyper 212 PRO ARGB CPU Air Cooler with its fan attached, ready for installation.

4. Operating Instructions

The Cooler Master Hyper 212 PRO ARGB CPU Air Cooler is designed for efficient and quiet operation.

4.1. Fan Control (PWM)

- The 120mm PWM fan automatically adjusts its speed based on CPU temperature, ranging from 690 to 2,500 RPM.
- You can configure fan curves in your motherboard's BIOS/UEFI settings or through compatible software to optimize for noise levels or cooling performance.



Image: Diagram illustrating the dynamic PWM fan speed range (690-2500 RPM) and its effect on airflow and noise.

4.2. ARGB Lighting

- The frosted blade design enhances the dispersion of ARGB lighting, creating vibrant visual effects.
- Control the ARGB lighting through your motherboard's software (e.g., ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync, ASRock Polychrome RGB) or a dedicated ARGB controller (not included).



Image: Close-up of the frosted fan blade, showcasing the ARGB lighting and compatibility logos for various motherboard sync technologies.

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Video: An unboxing of the Hyper 212 PRO ARGB CPU Cooler, showing the components and initial setup.

5. Maintenance

Regular maintenance helps ensure your CPU cooler performs efficiently and extends its lifespan.

- **Dust Removal:** Periodically clean dust from the heatsink fins and fan blades using compressed air or a soft brush. Ensure the fan is not spinning during cleaning.
- **Thermal Paste:** Reapply thermal paste if you remove the cooler from the CPU or if you notice a significant increase in CPU temperatures over time.
- **Fan Inspection:** Check the fan for any obstructions or unusual noises. Replace the fan if it becomes excessively noisy or stops spinning.

6. Troubleshooting

If you encounter issues with your Cooler Master Hyper 212 PRO ARGB CPU Air Cooler, refer to the following common problems and solutions:

- **Fan Not Spinning:**
  - Ensure the 4-pin PWM cable is securely connected to the CPU_FAN header on the motherboard.
  - Check BIOS/UEFI settings to ensure the CPU fan header is enabled and configured correctly.
  - Verify that the fan is not obstructed by cables or other components.
- **High CPU Temperatures:**
  - Confirm the heatsink is properly seated on the CPU and the mounting screws are tightened evenly.
  - Check if thermal paste was applied correctly and adequately. Reapply if necessary.
  - Ensure proper airflow within your PC case. The fan should be pushing air through the heatsink.
  - Clean any dust accumulation from the heatsink fins and fan blades.
- **ARGB Lighting Not Working:**
  - Ensure the 3-pin ARGB cable is securely connected to a compatible ARGB header on your motherboard or controller.
  - Verify that your motherboard's ARGB software is installed and configured correctly.
  - Check for any loose connections in the ARGB chain.
- **Excessive Noise:**
  - Check for any cables or objects touching the fan blades.
  - Adjust fan speed settings in BIOS/UEFI or software to a lower RPM if temperatures allow.
  - Ensure the fan is securely mounted and not vibrating against the heatsink or case.

7. Specifications

Feature	Detail
Product Dimensions (L x W x H)	4.9"L x 2.9"W x 5.9"H (125mm x 74mm x 152mm)
Brand	Cooler Master
Model Number	RR-212S-25PZ-R1
Power Connector Type	4-Pin PWM
Voltage	12 Volts
Wattage	2.4 Watts
Cooling Method	Air
Compatible Devices	Desktop CPUs (AMD AM5/AM4, Intel LGA1851/1700)
Noise Level	30 dB (Max)
Material	Aluminum, Copper, Plastic

Feature	Detail
Maximum Rotational Speed	2500 RPM
Air Flow Capacity	70.7 CFM (Cubic Feet per Minute)
Heat Pipes	4 Superconducting Heat Pipes
Item Weight	1.5 pounds



Image: Detailed technical drawing showing the dimensions of the Cooler Master Hyper 212 PRO ARGB CPU Air Cooler.

8. Warranty Information

The Cooler Master Hyper 212 PRO ARGB CPU Air Cooler is covered by a**2-Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For full warranty terms and conditions, please refer to the official Cooler Master website or contact their customer support.

9. Support

For further assistance, technical support, or to download the latest drivers and software, please visit the official Cooler Master website: www.coolermaster.com. You can also find additional resources and FAQs on their support pages.

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