

Cooler Master RR-212S-20PC-R1

Cooler Master Hyper 212 RGB Black Edition Cooling System

INSTRUCTION MANUAL

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Product Overview

The Cooler Master Hyper 212 RGB Black Edition is an advanced CPU air cooler designed for efficient heat dissipation and aesthetic customization. It features a sleek black aluminum top cover and nickel-plated jet black fins, enhancing both its appearance and cooling performance. The cooler utilizes Direct Contact Technology with four heat pipes and a stacked fin array to minimize airflow resistance and reduce heat spots, ensuring optimal thermal conductivity. The included SF120R RGB fan provides quiet operation and customizable RGB lighting, compatible with various motherboard synchronization technologies.

Setup and Installation

Before beginning installation, ensure your system is powered off and disconnected from the power source. It is recommended to work on a clean, static-free surface. The Hyper 212 RGB Black Edition includes versatile all-in-one mounting brackets that support both Intel (LGA2066, LGA2011-v3, LGA2011, LGA1151, LGA1150, LGA1156, LGA1155, LGA1366) and AMD (AM4, AM3+, AM3, AM2+, AM2, FM2+, FM2, FM1) sockets. Please refer to the detailed instructions provided in the product packaging for specific steps tailored to your CPU socket type.

Thermal paste is included and should be applied to the CPU's integrated heat spreader (IHS) before mounting the cooler. Ensure an even, thin layer for optimal heat transfer. The SF120R RGB fan comes with two connections: one for RGB lighting (12V) and one for fan power. These should be connected to the appropriate headers on your motherboard or to the included RGB controller.



Figure 1: All components included for installation, including mounting brackets, thermal paste, and RGB controller.

Operation

Once installed, the Cooler Master Hyper 212 RGB Black Edition will actively cool your CPU. The SF120R RGB fan operates to draw air through the heatsink fins, dissipating heat generated by the CPU. The fan speed is typically controlled by the motherboard's PWM (Pulse Width Modulation) function, adjusting automatically based on CPU temperature to maintain optimal cooling performance and noise levels.

The RGB lighting of the SF120R fan can be synchronized with your motherboard's RGB software (if compatible) or controlled manually using the included RGB controller. This allows for customization of lighting effects and colors to match your system's aesthetic.



Figure 2: Cooler with purple RGB.



Figure 3: Angled view with purple RGB.



Figure 4: Front view with purple RGB.



Figure 5: Fan in pink.



Figure 6: Fan in blue.



Figure 7: Fan in red.



Figure 8: Fan in orange.



Figure 9: Fan in yellow.



Figure 10: Fan in green.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your Cooler Master Hyper 212 RGB Black Edition. It is recommended to periodically clean the heatsink fins and fan blades to prevent dust buildup, which can impede airflow and reduce cooling efficiency.

- **Cleaning:** Use compressed air to gently blow dust out of the heatsink fins. For stubborn dust, a soft brush can be used. Ensure the fan is not spinning rapidly during cleaning with compressed air to prevent damage to the bearings.
- **Thermal Paste:** The thermal paste applied during installation has a lifespan. If you notice a significant increase in CPU temperatures over time, it may be necessary to reapply thermal paste. This involves carefully removing the cooler, cleaning off old thermal paste from both the CPU and the cooler's base, and applying a fresh layer.

Troubleshooting

Issue	Possible Cause	Solution
Fan not spinning or RGB not lighting up	Incorrect or loose power/RGB connections.	Verify all fan and RGB cables are securely connected to the correct headers on the motherboard or RGB controller. Check motherboard manual for correct header locations.
High CPU temperatures	Insufficient thermal paste, improper cooler mounting, dust buildup, poor case airflow.	Ensure thermal paste is correctly applied. Re-mount the cooler to ensure even pressure. Clean heatsink and fan. Improve case airflow by optimizing fan configuration.
Mounting difficulties	Incorrect bracket selection or improper alignment.	Double-check the installation manual for the correct mounting brackets for your CPU socket. Ensure all screws are tightened evenly in a cross pattern to apply balanced pressure.

Technical Specifications

Feature	Specification
Product Dimensions	4.72"L x 3.11"W x 6.22"H
Brand	Cooler Master
Power Connector Type	4-Pin
Voltage	12 Volts
Wattage	1.92 watts
Cooling Method	Air
Compatible Devices	Desktop
Noise Level	15 dB
Material	Aluminum
Maximum Rotational Speed	1800 RPM
Item Model Number	RR-212S-20PC-R1
Item Weight	2.2 pounds
Color	Black
What's in the Box	Mounting bracket, thermal paste, RGB controller

Warranty and Support

Cooler Master products are designed for reliability and performance. For detailed warranty information, technical support, or to register your product, please visit the official Cooler Master website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.

Online Resources: For the latest drivers, software, and FAQs, please visit the Cooler Master support page.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question