Redragon CC-1052-RGB

Redragon SIF RGB CPU Cooler (CC-1052-RGB) Instruction Manual

Model: CC-1052-RGB

1. Introduction

Thank you for choosing the Redragon SIF RGB CPU Cooler. This high-performance air cooler is designed to provide efficient cooling for your CPU, ensuring stable operation and enhanced system performance. It features a 120mm PWM fan and four direct-contact heatpipes for optimal heat dissipation. This manual provides detailed instructions for installation, operation, maintenance, and troubleshooting.

2. Safety Information

- Always disconnect power from your computer before installing or performing maintenance on any components.
- Handle the cooler and its components with care to avoid damage.
- Keep out of reach of children.
- Ensure proper ventilation around your computer case.
- Do not attempt to modify the cooler. Unauthorized modifications may void your warranty and pose safety risks.

3. Package Contents

Please verify that all components are present in your package:

- Redragon SIF RGB CPU Cooler (Heatsink with pre-installed fan)
- Mounting Brackets for Intel Sockets
- Mounting Brackets for AMD Sockets
- Backplate (Universal or specific for Intel/AMD)
- Thermal Paste

- Mounting Screws and Spacers
- User Manual (This document)



Figure 3.1: Redragon SIF RGB CPU Cooler components (example image, actual contents may vary slightly).

4. Specifications

Feature	Specification

Model	CC-1052-RGB
Compatibility (Intel)	LGA1200/1151/1150/1155/1366/1700
Compatibility (AMD)	AM3+/AM3/AM4+/AM4
TDP	150W
Heatsink Dimensions	131 x 76 x 155 mm
Fan Dimensions	120 x 120 x 25 mm
Heatsink Material	Aluminum
Heatpipe Material	Copper
Number of Heatpipes	4
Illumination	Redragon Rainbow RGB
Fan Rated Voltage	DC 12 V
Operating Voltage Range	DC 7 V to 12.6 V
Rated Current	0.32 A
Max Airflow	60 CFM
Max Static Pressure	1.06 mmH²O
Fan Speed	600 to 1650 ± 200 RPM
Operating Noise	25 dB(A)
Fan Connector	4-Pin PWM
Fan Lifespan	30,000 hours
Net Weight	616 g

5. Installation Guide

Before you begin, ensure your computer is powered off and unplugged from the wall outlet. Refer to your motherboard manual for specific CPU socket information.

5.1. Prepare the Motherboard

1. Remove your existing CPU cooler. Clean any old thermal paste from the CPU surface using isopropyl alcohol and a lint-free cloth.
2. Identify your CPU socket type (Intel or AMD).

5.2. Install Backplate and Mounting Brackets



Figure 5.1: Cooler assembly with fan attached.

For Intel Sockets (LGA1200/1151/1150/1155/1366/1700):

1. Place the universal backplate on the rear side of the motherboard, aligning the holes with the CPU socket mounting holes.
2. From the front side of the motherboard, insert the appropriate standoffs through the mounting holes and into the backplate.
3. Secure the Intel mounting brackets onto the standoffs using the provided screws.

For AMD Sockets (AM3+/AM3/AM4+/AM4):

1. Remove the stock AMD plastic retention modules from the motherboard, but keep the original backplate.
2. Attach the AMD mounting brackets to the cooler's base.
3. Align the cooler with the original AMD backplate's screw holes.

5.3. Apply Thermal Paste

1. Apply a small, pea-sized amount of thermal paste to the center of your CPU's integrated heat spreader (IHS).
2. Do not spread the paste manually; the pressure from the cooler will spread it evenly.

5.4. Mount the Cooler

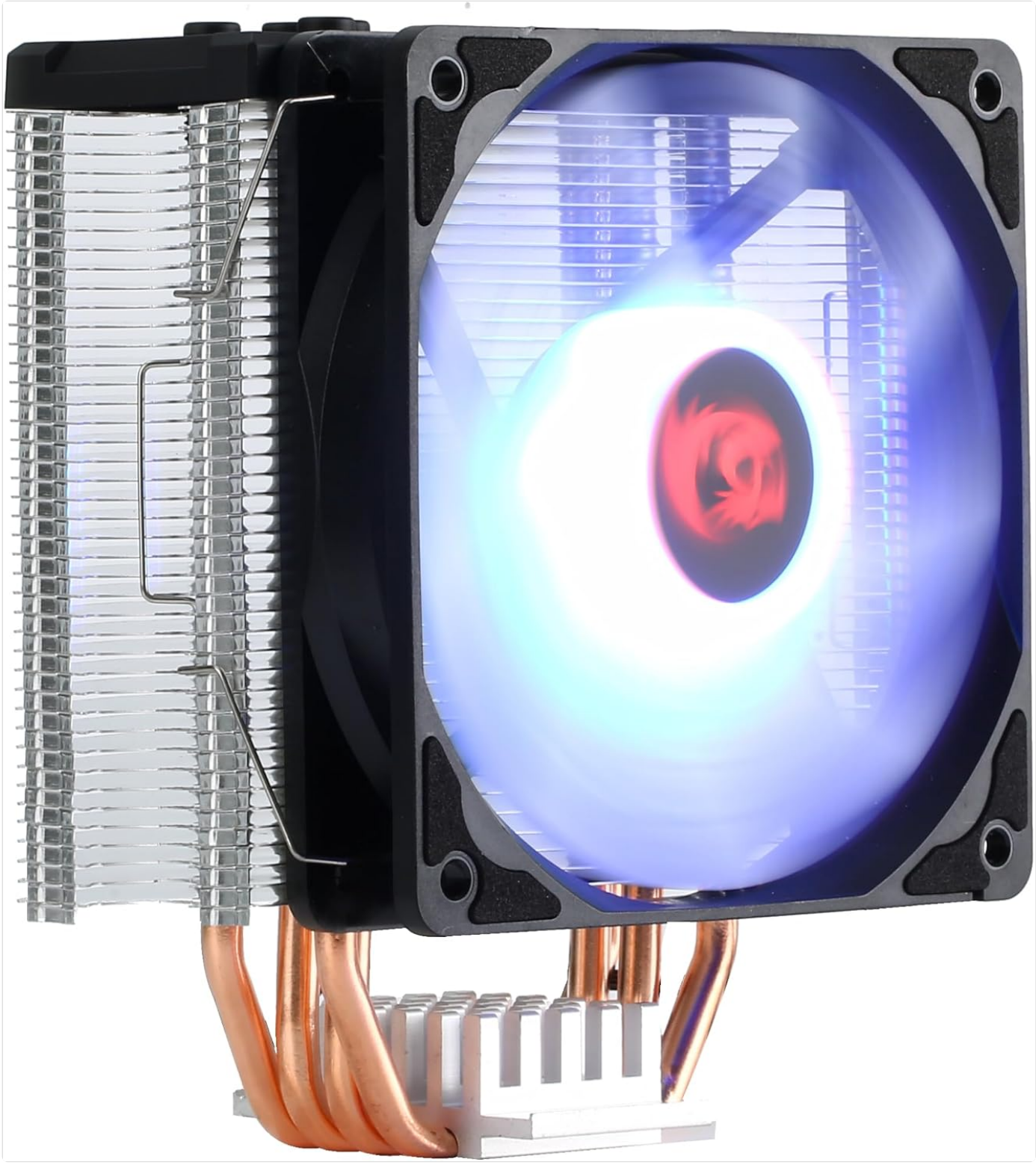


Figure 5.2: Front view of the cooler.

1. Carefully place the cooler onto the CPU, aligning the mounting holes on the cooler's base with the brackets on the motherboard.
2. Secure the cooler by tightening the screws in a diagonal pattern (e.g., top-left, bottom-right, top-right, bottom-left) until snug. Do not overtighten.

5.5. Connect the Fan

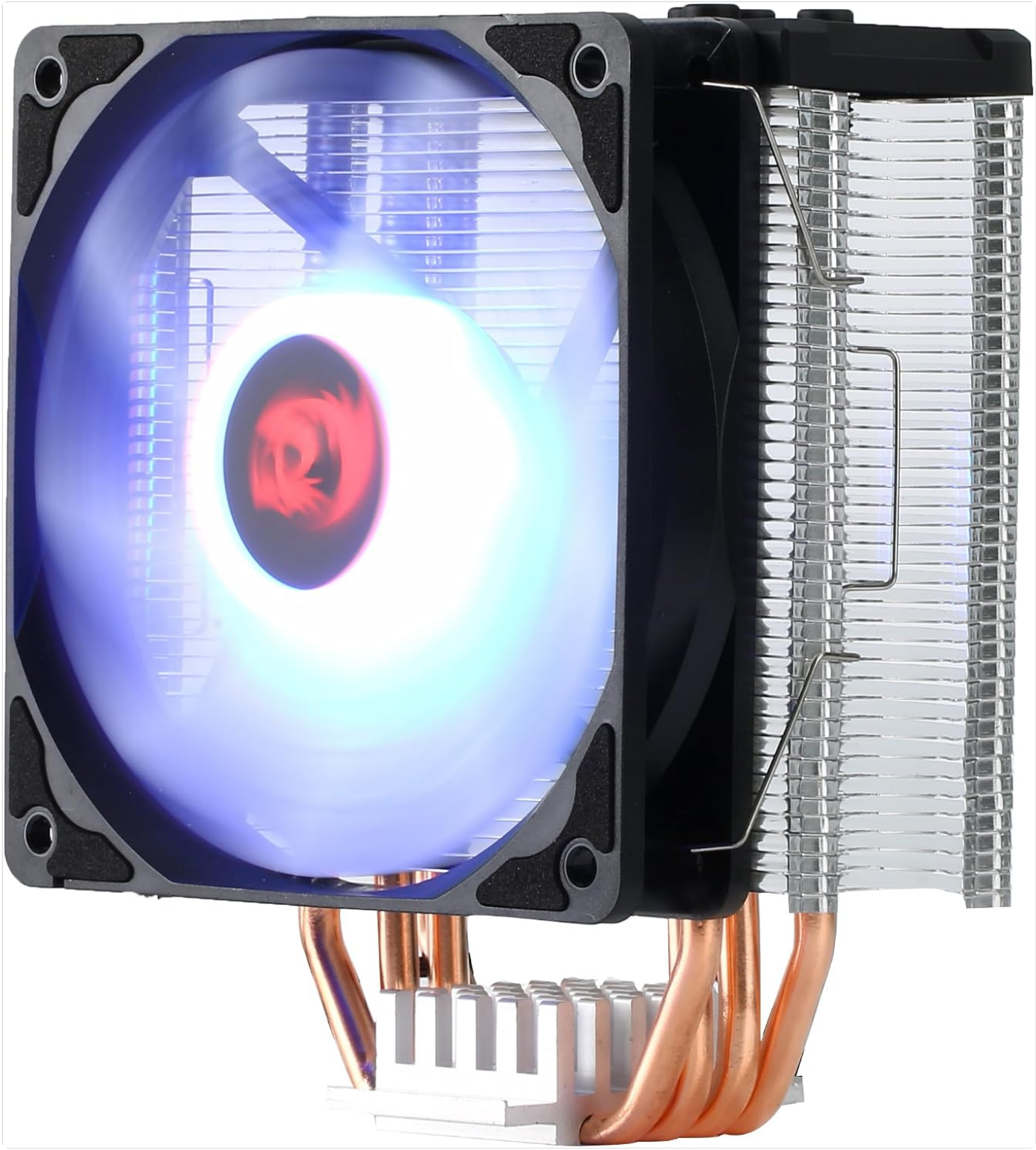


Figure 5.3: Side view of the cooler, showing heatpipes.

1. Locate the 4-pin PWM fan connector on your motherboard (usually labeled "CPU_FAN").
2. Connect the cooler's 4-pin fan cable to the "CPU_FAN" header.

3. If your cooler has a separate RGB connector, connect it to a compatible RGB header on your motherboard (e.g., 12V RGB header). Refer to your motherboard manual for RGB header locations.

6. Operation

Once installed, the Redragon SIF RGB CPU Cooler will begin operating automatically when your computer is powered on.

- **PWM Control:** The 4-pin PWM connector allows your motherboard to dynamically control the fan speed based on CPU temperature, optimizing cooling performance and noise levels. You can typically adjust fan curves in your motherboard's BIOS/UEFI settings.
- **RGB Lighting:** The Redragon Rainbow RGB lighting will illuminate upon power-up. If connected to a compatible motherboard RGB header, you may be able to control the lighting effects using your motherboard's RGB software.



Figure 6.1: Redragon SIF RGB CPU Cooler in operation with RGB lighting.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your CPU cooler.

- **Dust Cleaning:** Periodically (every 3-6 months, depending on environment) clean dust from the heatsink fins and fan blades using compressed air. Ensure the fan is not spinning during cleaning to prevent damage.
- **Fan Check:** Occasionally check the fan for any unusual noises or reduced rotation speed. If the fan is faulty, it may need replacement.
- **Thermal Paste:** While not frequently required, if you remove the cooler for any reason, it is recommended to clean

off old thermal paste and apply new paste before re-installation.

8. Troubleshooting

Problem	Possible Cause	Solution
Fan not spinning	◦ Fan cable disconnected ◦ Faulty fan header on motherboard ◦ Fan failure	◦ Ensure 4-pin PWM cable is securely connected to "CPU_FAN" header. ◦ Try connecting the fan to a different fan header. ◦ Contact Redragon support if fan is confirmed faulty.
High CPU temperatures	◦ Improper cooler mounting ◦ Insufficient thermal paste ◦ Fan not spinning at optimal speed ◦ Poor case airflow	◦ Re-mount the cooler, ensuring even pressure and proper thermal paste application. ◦ Check BIOS/UEFI settings for fan speed control. ◦ Improve case ventilation.
RGB lighting not working	◦ RGB cable disconnected ◦ Incompatible RGB header ◦ Software issue	◦ Ensure RGB cable is securely connected to a 12V RGB header. ◦ Verify motherboard RGB header compatibility. ◦ Check motherboard RGB control software settings.

9. Warranty and Support

The Redragon SIF RGB CPU Cooler (Model CC-1052-RGB) comes with a**12-month warranty** from the date of purchase, covering manufacturing defects.
For technical support, warranty claims, or further assistance, please contact your local Redragon distributor or visit the official Redragon website for contact information.
Please retain your proof of purchase for warranty purposes.

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