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Redragon C218

Redragon C218 Dual Tower CPU Air Cooler User Manual

Model: C218

INTRODUCTION

Thank you for choosing the Redragon C218 Dual Tower CPU Air Cooler. This manual provides essential information for the proper installation, operation, and maintenance of your new CPU cooler. The C218 is designed to deliver superior cooling performance for your CPU, featuring a dual-tower heatsink, six heat pipes, and a powerful 120mm A-RGB PWM fan. Please read this manual thoroughly before installation to ensure optimal performance and longevity of your product.



Figure 1: Redragon C218 Dual Tower CPU Air Cooler, front view.

Safety Information

Please observe the following safety precautions to prevent damage to the product or injury to yourself:

- Always disconnect power from your computer before installing or performing maintenance on the CPU cooler.
- Handle the cooler by its heatsink and fan assembly. Avoid touching the copper coldplate directly to prevent contamination.
- Be careful when handling sharp edges of the heatsink fins.
- Keep out of reach of children.
- Ensure proper grounding to prevent electrostatic discharge (ESD) damage to components.
- Do not attempt to modify the cooler. Unauthorized modifications may void your warranty and pose safety risks.

Package Contents

Verify that all items are present in the package:

- Redragon C218 CPU Cooler (with pre-attached fans)
- Installation Kit (includes mounting brackets for Intel and AMD, screws, and thermal paste)

If any items are missing or damaged, please contact Redragon customer support.

Setup and Installation

The Redragon C218 supports a wide range of Intel and AMD sockets. Please identify your CPU socket type and follow the corresponding installation steps.

General Preparation:

1. Power off your computer and disconnect all cables.
2. Open your computer case and locate the CPU socket on the motherboard.
3. Remove any existing CPU cooler. Clean the CPU surface thoroughly with isopropyl alcohol to remove old thermal paste.
4. Carefully remove the protective film from the copper coldplate of the C218 cooler.

Applying Thermal Paste:

Apply a small, pea-sized amount of the included thermal paste to the center of your CPU's Integrated Heat Spreader (IHS). The pressure from the cooler will spread it evenly.

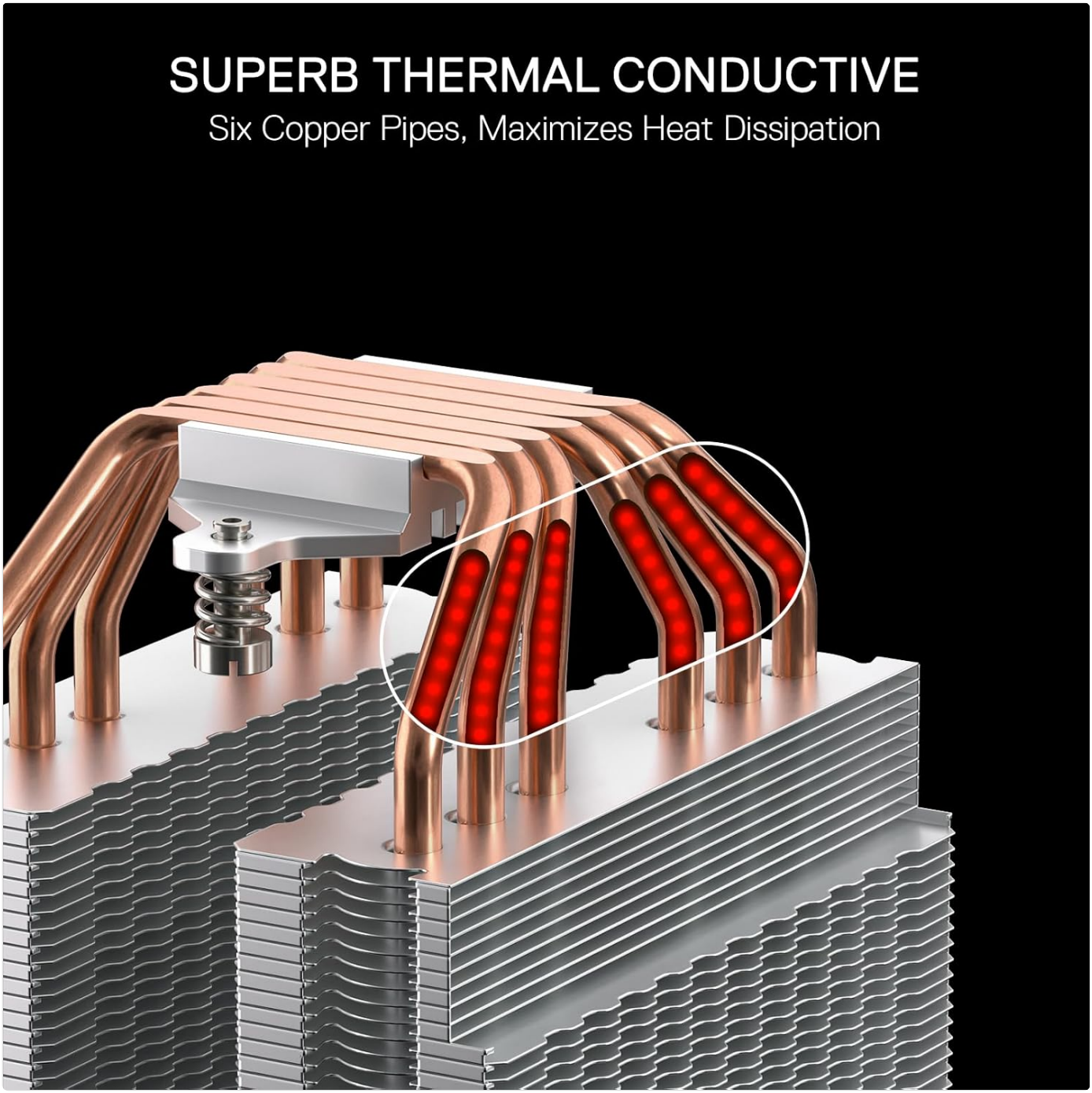


Figure 2: Illustration of the six copper heat pipes designed for superb thermal conductivity.

Mounting Bracket Installation:

Select the appropriate mounting brackets for your CPU socket (Intel LGA 2066/2011v3/2011/1700/1200/1151/1150/1155 or AMD AM5/AM4). Attach them to the cooler base using the provided screws. Refer to the diagrams in the installation kit for specific bracket orientation.

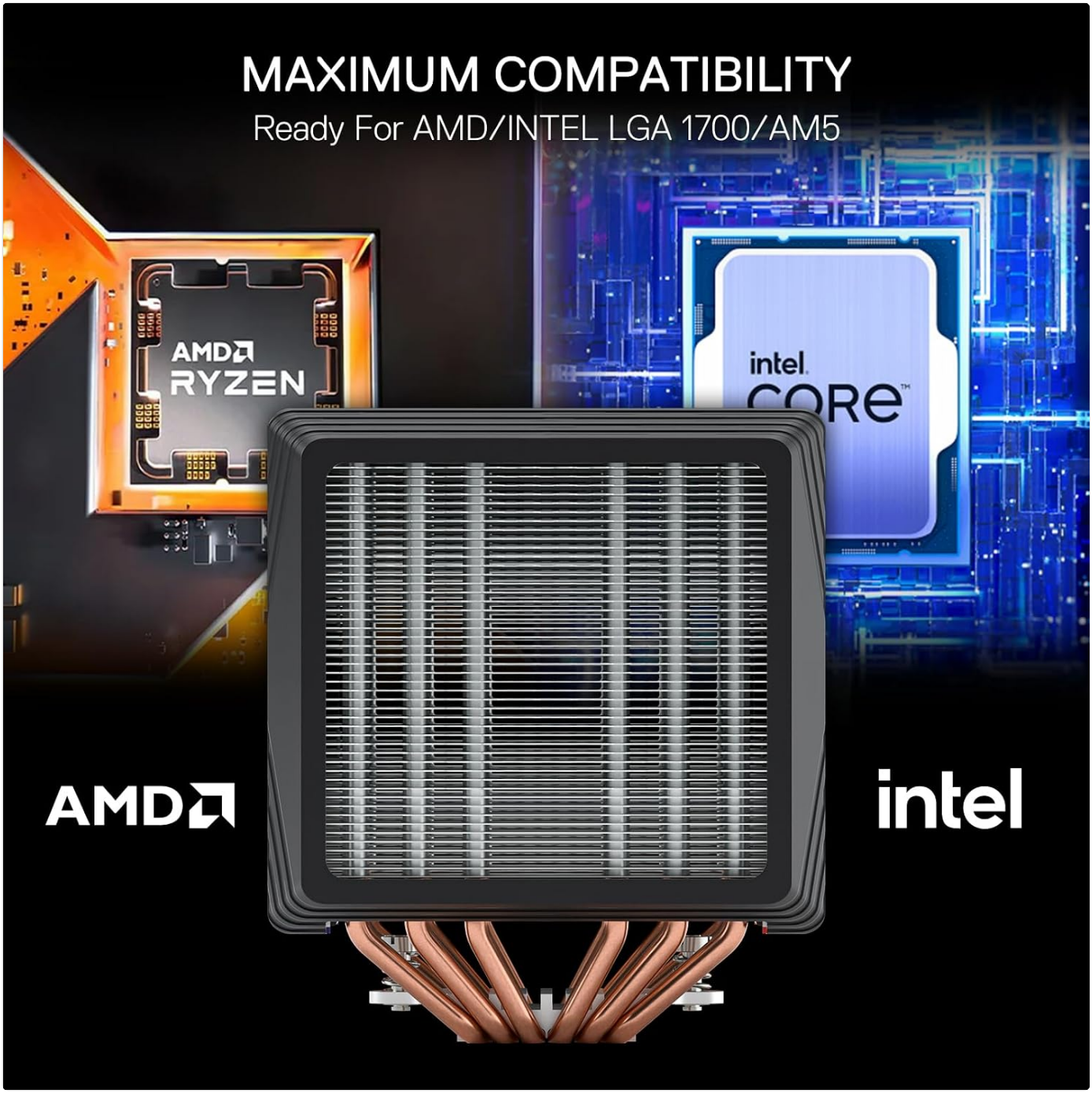


Figure 3: The Redragon C218 cooler is compatible with both AMD and Intel platforms.

Securing the Cooler:

Carefully align the cooler with the mounting holes on your motherboard. Gently lower the cooler onto the CPU, ensuring the coldplate makes full contact. Secure the cooler by tightening the mounting screws in a diagonal pattern until snug. Do not overtighten.



Figure 4: The C218 cooler installed within a PC chassis, showcasing its compact fit.



Figure 5: Top-down view of the C218 cooler installed, highlighting its dual-tower design and RGB lighting.

Connecting the Fan and RGB Cables:

- Connect the 4-pin PWM fan cable from the cooler to the CPU_FAN header on your motherboard.
- Connect the A-RGB cable to a compatible 3-pin 5V A-RGB header on your motherboard. Ensure correct pin alignment to prevent damage.



Figure 6: The high-performance 120mm PWM fan, designed for optimal airflow and minimal noise.



Figure 7: The C218 cooler showcasing its Addressable RGB (A-RGB) lighting effects.

Operating Instructions

Fan Control (PWM):

The 120mm fan on the C218 cooler utilizes Pulse Width Modulation (PWM) technology. This allows your motherboard to dynamically control the fan speed based on CPU temperature, ensuring efficient cooling while minimizing noise. You can typically configure fan curves in your motherboard's BIOS/UEFI settings or through motherboard-specific software.

- **Low Noise Operation:** At lower CPU temperatures, the fan will spin at reduced RPMs (e.g., 700 RPM), resulting in quiet operation.
- **High Performance:** Under heavy CPU load, the fan speed will increase up to 1800 RPM to provide maximum airflow (up to 72 CFM) and dissipate heat effectively.

A-RGB Lighting Control:

The A-RGB lighting on the C218 is controlled via your motherboard's 3-pin 5V A-RGB header. Most modern

motherboards come with software that allows you to customize lighting effects, colors, and synchronization with other A-RGB components. Refer to your motherboard's manual for specific instructions on A-RGB software and control.

Maintenance

Regular maintenance helps ensure optimal performance and extends the lifespan of your CPU cooler:

- **Dust Removal:** Periodically (every 3-6 months, or more frequently in dusty environments), use compressed air to blow dust out of the heatsink fins and fan blades. Ensure the fan is held stationary while blowing to prevent over-spinning and potential damage.
- **Fan Cleaning:** If dust buildup is significant on the fan blades, gently wipe them with a soft, dry cloth.
- **Thermal Paste:** While not typically required frequently, if you remove the cooler for any reason, it is recommended to clean off the old thermal paste from both the CPU and the cooler's coldplate and apply fresh thermal paste before reinstallation.

Troubleshooting

Problem	Possible Cause	Solution
CPU temperature is high.	Insufficient thermal paste or poor application. Cooler not properly seated. Fan not spinning or spinning too slowly. Dust buildup on heatsink.	Reapply thermal paste. Re-seat the cooler, ensuring even pressure. Check fan cable connection to CPU_FAN header. Adjust fan curve in BIOS. Clean heatsink and fan.
Fan is noisy.	Dust buildup. Fan cable interfering with blades. Fan speed set too high.	Clean fan blades. Ensure cables are clear of fan. Adjust fan curve in BIOS to lower RPMs at idle.
A-RGB lighting not working.	Incorrect A-RGB header connection (e.g., connected to 12V RGB instead of 5V A-RGB). Loose connection. Motherboard A-RGB software issue.	Verify connection to a 3-pin 5V A-RGB header. Ensure cable is securely plugged in. Restart A-RGB software or reinstall motherboard drivers.

Specifications

Feature	Detail
Model Number	C218
Product Dimensions (L x W x H)	5.47" x 4.45" x 6.46" (139mm x 113mm x 164.3mm)
Weight	2.49 Pounds
Cooling Method	Air Cooling
Heat Pipes	6 Copper Heat Pipes
Fan Size	120mm

Feature	Detail
Fan Speed	700-1800 RPM (PWM)
Air Flow Capacity	72 CFM (Max)
Noise Level	32.6 dB (Max)
Power Connector Type	4-Pin PWM (Fan), 3-Pin 5V (A-RGB)
Voltage	12 Volts
Wattage	9 Watts
Compatible Sockets	Intel LGA 2066/2011v3/2011/1700/1200/1151/1150/1155, AMD AM5/AM4

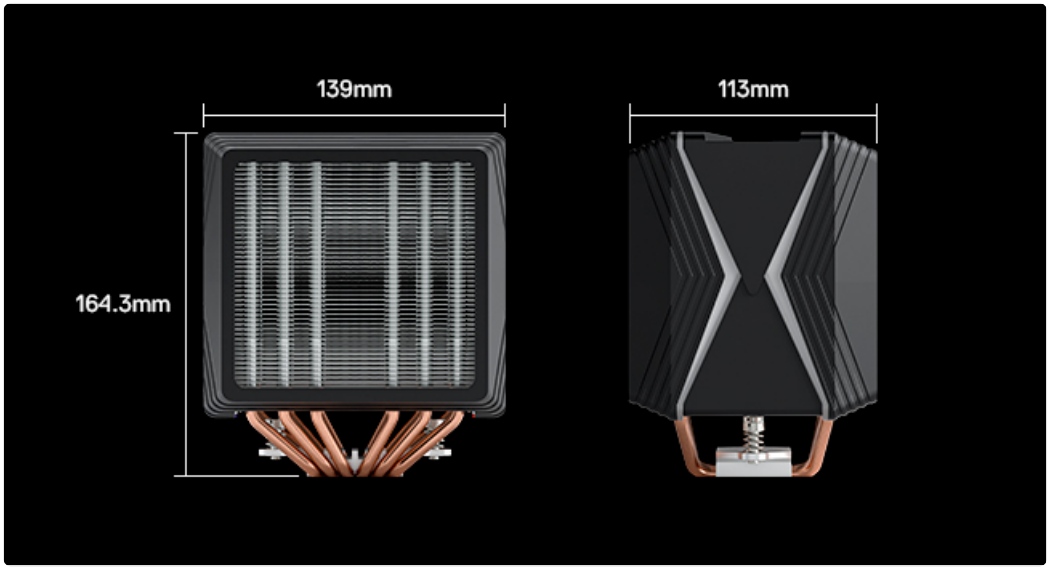


Figure 8: Detailed dimensions of the Redragon C218 CPU cooler.

Warranty and Support

The Redragon C218 CPU Air Cooler comes with a 5-year warranty, covering defects in materials and workmanship from the date of purchase. This warranty does not cover damage caused by accident, misuse, abuse, neglect, improper installation, or unauthorized modification.



Figure 9: Redragon offers a 5-year warranty for the C218 CPU cooler.

For technical support, warranty claims, or further assistance, please visit the official Redragon website or contact their customer service department. Please have your product model number (C218) and proof of purchase ready when contacting support.

Redragon Official Website: www.redragonusa.com

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