

Vetroot V5

Vetroot V5 CPU Air Cooler Instruction Manual

Model: V5

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Vetroot V5 CPU Air Cooler. The Vetroot V5 is designed to provide efficient cooling for your processor with its 5 direct-contact heat pipes, 120mm FDB PWM fan, and addressable RGB lighting. It supports a wide range of Intel and AMD sockets, ensuring broad compatibility for various PC builds.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this product. Failure to do so may result in damage to the product, your computer components, or personal injury.

- Always disconnect your computer from the power source before performing any installation or maintenance.
- Handle components with care to avoid damage. CPU coolers may have sharp edges.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to prevent electrostatic discharge (ESD) damage to sensitive components.
- Ensure all cables are connected correctly and securely to prevent electrical shorts or malfunction.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in your package. If any parts are missing or damaged, please contact

customer support.

- Vetroo V5 Heatsink
- 120mm PWM ARGB Fan
- Intel Mounting Brackets (LGA 1851/1700/1200/115X)
- AMD Mounting Brackets (AM5/AM4)
- Universal Backplate
- Mounting Screws and Spacers
- Thermal Paste
- Fan Clips
- User Manual

PWM SMART CONTROL

4-Pin PWM control allows for dynamic speed adjustment between 800-1700±10% RPM,



Figure 1: Exploded view showing the heatsink, fan, mounting hardware, and screws included with the Vetroo V5 CPU Air Cooler.

4. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Model Number	V5-WT
Product Dimensions (L x W x H)	14.8 x 12.8 x 7.5 cm
Item Weight	761 grams
Heat Pipes	5 Direct Contact
Fan Size	120mm
Fan Type	FDB PWM ARGB
Fan Speed	800-1700 RPM (±10%)
Air Flow	52 CFM
Noise Level	30.8 dB (Max)
Voltage	12V
Wattage (TDP)	150 W
Power Connector	4-pin PWM (Fan), 3-pin ARGB (Lighting)
Material	Aluminum (Fins), Copper (Base)
Compatibility	Intel LGA 1851/1700/1200/115X, AMD AM5/AM4
UPC	609015786611

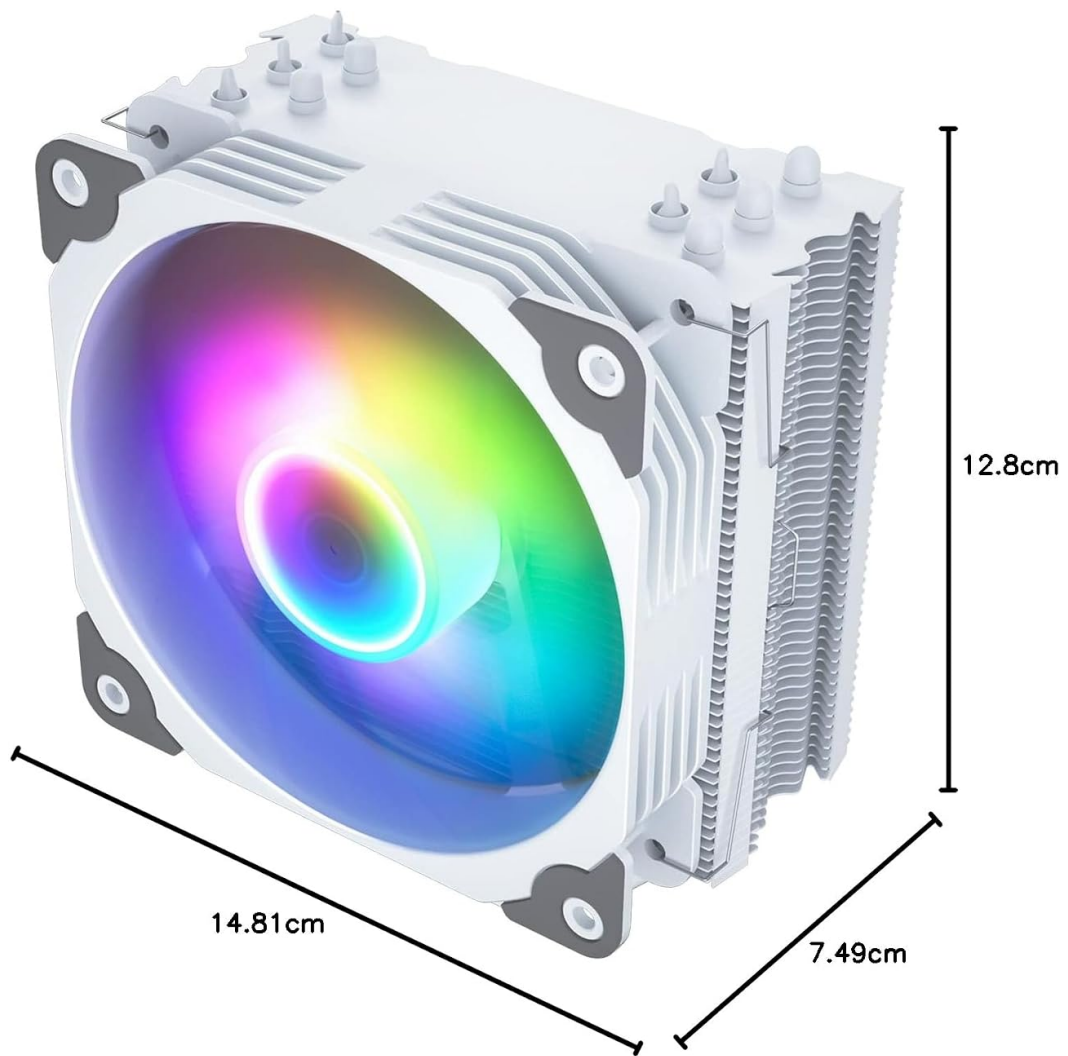


Figure 2: Physical dimensions of the Vetroo V5 CPU Air Cooler.

5. SETUP AND INSTALLATION

Before beginning installation, ensure your computer is powered off and unplugged. Refer to your motherboard manual for specific CPU socket information.

5.1 General Preparation

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 LGA or AMD AM).

5.2 Intel LGA Installation (1851/1700/1200/115X)

1. Place the universal backplate behind the motherboard, aligning the holes with the CPU socket mounting holes.
2. Insert the appropriate Intel standoffs through the motherboard from the front, screwing them into the backplate.
3. Attach the Intel mounting brackets to the standoffs using the provided screws. Ensure they are securely fastened.
4. Apply a small amount of thermal paste (pea-sized dot or thin line) to the center of the CPU's integrated heat spreader (IHS).

5. Carefully place the heatsink onto the CPU, aligning the mounting holes on the heatsink base with the mounting brackets.
6. Secure the heatsink to the mounting brackets using the spring-loaded screws, tightening them in an alternating diagonal pattern until snug. Do not overtighten.

5.3 AMD AM Installation (AM5/AM4)

1. Remove the plastic retention clips from the motherboard's stock AMD backplate. Keep the stock backplate in place.
2. Screw the appropriate AMD standoffs into the stock backplate's mounting holes.
3. Attach the AMD mounting brackets to the standoffs using the provided screws. Ensure they are securely fastened.
4. Apply a small amount of thermal paste (pea-sized dot or thin line) to the center of the CPU's integrated heat spreader (IHS).
5. Carefully place the heatsink onto the CPU, aligning the mounting holes on the heatsink base with the mounting brackets.
6. Secure the heatsink to the mounting brackets using the spring-loaded screws, tightening them in an alternating diagonal pattern until snug. Do not overtighten.

LOW NOISE OPERATION

9 fan blades and 8 vibration rubber pads provide the excellent silent experience and great airflow



Figure 3: Mounting bracket compatibility for AMD and Intel sockets.

5.4 Fan Attachment and Cable Connection

1. Attach the 120mm fan to the heatsink using the provided fan clips. Ensure the fan is oriented to blow air through the heatsink towards the rear or top of your PC case.
2. Connect the 4-pin PWM fan cable to an available CPU_FAN header on your motherboard.
3. Connect the 3-pin ARGB cable to a 5V 3-pin addressable RGB header on your motherboard. **Do not connect to a 12V 4-pin RGB header, as this will damage the LEDs.**

TAILORED FOR RAM

You can adjust the height of fan up and down according to your RAM



Figure 4: Correct connection for ARGB lighting to a 5V 3-pin header.



Figure 5: The Vetroo V5 CPU Air Cooler installed in a typical PC build.

6. OPERATING INSTRUCTIONS

6.1 PWM Smart Control

The 4-pin PWM fan automatically adjusts its speed based on CPU temperature, providing optimal cooling performance while minimizing noise. You can typically configure fan curves in your motherboard's BIOS/UEFI settings or through motherboard-specific software.

ARGB LIGHTING

Sync with your motherboard via 5v 3-Pin port, customizable lights your build and components



Figure 6: PWM control allows dynamic fan speed adjustment between 800-1700 RPM for quiet operation.

6.2 ARGB Lighting Synchronization

The addressable RGB lighting can be synchronized with your motherboard's RGB software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, Gigabyte RGB Fusion, ASRock Polychrome Sync) via the 5V 3-pin ARGB header. This allows for customizable lighting effects to match your system's aesthetic.

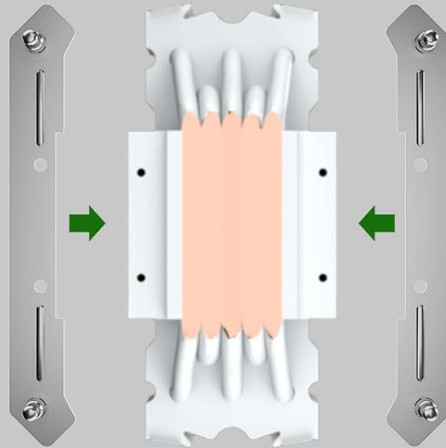
6.3 Excellent Thermal Performance

The Vetroo V5 features 5 direct-contact heat pipes, high-density aluminum fins, and a larger copper base to maximize heat transfer from your CPU, ensuring efficient cooling even under heavy loads.

COMPATIBILY



AMD Socket
AM5 / AM4



INTEL Socket
LGA1851 / 1700 / 1200 / 115X

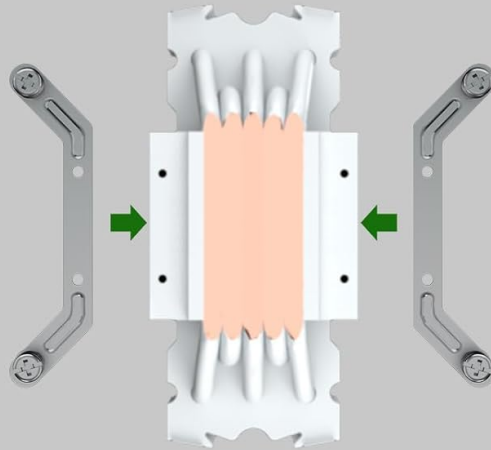


Figure 7: Design features for excellent thermal conductivity, including 5 heat pipes.

6.4 Low Noise Operation

Equipped with 9 fan blades, a Fluid Dynamic Bearing (FDB), and 8 vibration-dampening rubber pads, the fan operates quietly while providing substantial airflow for effective cooling.

EXCELLENT THERMAL CONDUCTIVITY

5 direct contact heatpipes, high-density aluminium fins and larger copper base provide great thermal conductivity

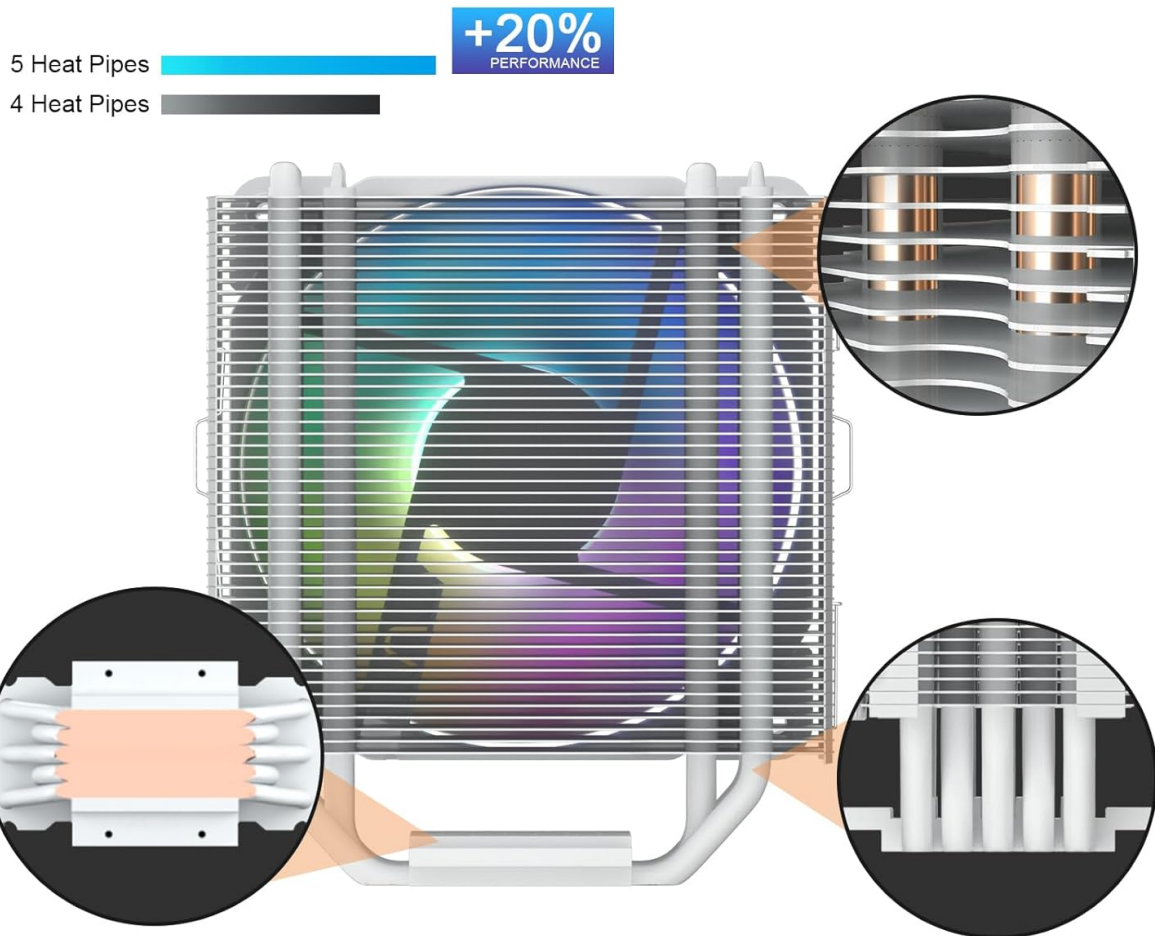


Figure 8: Fan design elements contributing to low noise and efficient airflow.

7. MAINTENANCE

Regular maintenance helps ensure optimal performance and longevity of your CPU cooler.

- **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 to prevent damage to the motor.
- **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 signs of wear, unusual noises, or obstructions.

8. TROUBLESHOOTING

If you encounter issues with your Vetroo V5 CPU Air Cooler, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
High CPU Temperatures	Incorrect thermal paste application, poor heatsink contact, insufficient airflow in case, fan not spinning.	Reapply thermal paste, ensure heatsink is securely mounted, check fan connection, improve case airflow.
Fan Not Spinning	Fan cable disconnected, faulty fan header, fan failure.	Check 4-pin PWM cable connection to CPU_FAN header, try a different fan header, contact support if fan is faulty.
ARGB Lighting Not Working	ARGB cable disconnected, connected to wrong header (12V RGB), motherboard software issue.	Ensure 3-pin ARGB cable is connected to a 5V 3-pin ARGB header, check motherboard RGB software settings, ensure power to ARGB header.
Excessive Fan Noise	Dust buildup, fan rubbing against cables, fan bearing issue.	Clean fan blades and heatsink, ensure no cables are obstructing fan, contact support if bearing noise persists.

9. WARRANTY AND SUPPORT

Vetroo products are manufactured to high-quality standards. This product is covered by a limited manufacturer's warranty against defects in materials and workmanship. The warranty period may vary by region and retailer.

For warranty claims, technical support, or any questions regarding your Vetroo V5 CPU Air Cooler, please contact your retailer or visit the official Vetroo website for support resources and contact information. Please retain your proof of purchase for warranty purposes.