## Corsair CMYAF

# Corsair Vengeance Airflow Memory Cooling Fan CMYAF - Instruction Manual



## 1. Overview

The Corsair Vengeance Airflow Memory Cooling Fan CMYAF is designed to provide active cooling for your system's RAM modules. This device helps to reduce memory temperatures, which can be beneficial for system stability and performance, especially in overclocked configurations or systems with high-performance memory. It features a compact design that clips onto your RAM slots, directing airflow directly over the memory modules.


Figure 1: Front view of the Corsair Vengeance Airflow Memory Cooling Fan.

## 2. Key Features

- **Efficient Cooling:** Features a 60mm fan designed to deliver targeted airflow to memory modules.
- **Adjustable Fan Speed:** Operates at 3500 RPM or 2500 RPM using the included speed control cable, allowing for a balance between cooling performance and noise level.
- **Quiet Operation:** Engineered for low noise output, with a typical noise level of 21.0 dB(A) and a maximum of 25 dB(A).
- **Durable Design:** Utilizes a ball bearing fan for extended operational life, rated at 80,000 hours at 25°C.
- **Customizable Aesthetics:** Includes interchangeable fan shroud covers in red, blue, and silver to match various system builds.
- **Broad Compatibility:** Designed for desktop systems, compatible with various DDR memory types.
- **Easy Installation:** Clips directly onto existing RAM slot retention clips for secure mounting.


Figure 2: Top-down view showing the fan and Vengeance Airflow branding.

## 3. Package Contents

Verify that all components are present in your package:

- Corsair Vengeance Airflow Memory Cooling Fan unit
- Speed control cable (for 2500 RPM operation)
- Interchangeable fan shroud covers (Red, Blue, Silver)
- Installation clips/brackets


Figure 3: The Corsair Vengeance Airflow Memory Cooling Fan as packaged.

## 4. Installation Guide

Before beginning installation, ensure your computer is powered off and unplugged from the wall outlet. It is recommended to wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.

### 4.1 Preparing Your System

1. Power down your computer and disconnect the power cable.
2. Open your computer case to access the motherboard and RAM slots.
3. Identify the RAM modules you wish to cool. Ensure there is adequate clearance above and around the memory slots for the cooling unit.

### 4.2 Mounting the Cooling Fan

1. Attach the provided installation clips/brackets to the Corsair Vengeance Airflow unit. These clips are designed to secure the unit to the RAM slot retention clips on your motherboard.
2. Carefully position the cooling unit over your RAM modules. The fan should be oriented to blow air directly onto the memory.
3. Gently press the installation clips onto the retention clips of your RAM slots until they securely snap into place. Ensure the unit is stable and does not wobble.
4. Adjust the position of the cooling unit if necessary to optimize airflow and clearance with other components (e.g., CPU cooler, graphics card). The mounting legs are often adjustable to accommodate different spacing.

### 4.3 Connecting Power

1. Locate an available 3-pin or 4-pin fan header on your motherboard or a fan controller.
2. Connect the fan's power cable to the chosen header.
3. If you wish to operate the fan at a reduced speed (2500 RPM), use the included speed control cable. Connect this cable between the fan's power cable and the motherboard header. For full speed (3500 RPM), connect the fan directly.

### 4.4 Customizing Appearance (Optional)

- The unit comes with interchangeable fan shroud covers in red, blue, and silver. To change the cover, gently remove the current cover and snap the desired color cover into place.

After installation, close your computer case, reconnect the power cable, and power on your system.

## 5. Operation

Once installed and powered, the Corsair Vengeance Airflow Memory Cooling Fan operates continuously to provide cooling to your RAM modules. The fan speed will depend on whether the speed control cable is used.

- **Standard Operation (3500 RPM):** When connected directly to a 3-pin or 4-pin fan header without the speed control cable, the fan will operate at its maximum speed of approximately 3500 RPM. This provides maximum cooling performance.
- **Reduced Speed Operation (2500 RPM):** When the included speed control cable is used, the fan's speed is reduced to approximately 2500 RPM. This setting offers quieter operation while still providing effective cooling.

Monitor your memory temperatures using system monitoring software to determine the optimal fan speed setting for your system's needs.

## 6. Maintenance

Regular maintenance ensures optimal performance and longevity of your cooling fan.

- **Dust Removal:** Periodically inspect the fan blades and shroud for dust accumulation. Dust can impede airflow and reduce cooling efficiency.
- **Cleaning Procedure:**
    a. Power off your computer and disconnect the power cable.
    b. Use compressed air to gently blow dust off the fan blades and surrounding areas. Hold the fan blades stationary while using compressed air to prevent over-spinning and potential damage to the bearing.
    c. For stubborn dust, a soft brush or cotton swab can be used. Avoid using liquids or harsh chemicals.

- **Inspection:** Check the mounting clips periodically to ensure the unit remains securely attached to the RAM slots.

## 7. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Fan is not spinning. | No power to fan header.<br>Fan cable improperly connected.<br>Faulty fan. | Ensure PC is powered on and fan header is active.<br>Verify the fan's 3/4-pin connector is fully seated in the motherboard header.<br>Test the fan on a different fan header if available. If still not spinning, the fan may be faulty. |
| Fan is too loud. | Operating at maximum RPM.<br>Dust accumulation.<br>Vibration. | Use the included speed control cable to reduce RPM to 2500.<br>Clean the fan blades and shroud of any dust.<br>Ensure the fan unit is securely mounted and not vibrating against other components. |
| Memory temperatures are not decreasing significantly. | Insufficient airflow.<br>Fan operating at low speed.<br>Poor case airflow. | Ensure the fan is positioned directly over the RAM modules.<br>Remove the speed control cable to operate the fan at 3500 RPM.<br>Improve overall case airflow by adjusting other case fans or adding more. |
| Unit feels loose or wobbly. | Improperly seated clips.<br>Incompatible RAM slot design. | Re-seat the mounting clips, ensuring they firmly engage the RAM slot retention clips.<br>While designed for broad compatibility, some motherboard/RAM slot designs may not provide a perfectly rigid fit. Ensure it is stable enough not to interfere with other components. |

## 8. Technical Specifications

| Feature | Detail |
|---|---|
| Model Number | CMYAF |
| Fan Diameter | 60mm |
| Bearing Type | Ball bearing |
| Rotational Speed (RPM) | 3500 RPM (max) / 2500 RPM (with speed control cable) |
| Noise Level | 21.0 dB(A) (typical) / 25 dB(A) (max) |
| Fan Life Expectancy | 80,000 hours at 25°C |

| Feature | Detail |
|---|---|
| Operating Voltage | 7-13.2V |
| Power Connector | 3-pin or 4-pin Combo |
| Cooling Method | Air |
| Compatible Devices | Desktop PCs (RAM modules) |
| Product Dimensions (LxWxH) | 5.71" x 2.56" x 2.83" (14.5cm x 6.5cm x 7.2cm) |
| Item Weight | 4.2 ounces (119 grams) |
| Material | Copper (for internal components/heatsink, main body is plastic/metal) |

## 9. Warranty and Support

Corsair products are designed for reliability and performance. For specific warranty information regarding your Corsair Vengeance Airflow Memory Cooling Fan CMYAF, please refer to the warranty card included with your product or visit the official Corsair website.

**Technical Support:** If you encounter any issues or have questions not covered in this manual, please contact Corsair customer support. You can find support resources, FAQs, and contact information on the official Corsair website: www.corsair.com/support

Please have your product model number (CMYAF) and purchase information ready when contacting support.