SCYTHE SCMG-6000

Scythe Mugen 6 CPU Air Cooler: Installation and User Manual

Model: SCMG-6000

1. Product Overview

The Scythe Mugen 6 is a high-performance single-tower CPU air cooler designed for efficient heat dissipation in modern computer systems. It features a robust heatsink with 6 nickel-plated copper heat pipes and a dense fin array, optimized for high Thermal Design Power (TDP) processors from both Intel and AMD. The cooler is equipped with a Scythe Wonder Tornado 120mm fan, engineered for quiet operation while delivering substantial airflow.



Figure 1: Angled view of the Scythe Mugen 6 CPU Air Cooler.

Key Features:

- **Enhanced Efficiency:** Features a 45% increase in fin count at 154mm height, with 6 nickel-plated copper heat pipes for superior thermal conductivity and heat dissipation.
- **Multi-Platform Support:** Utilizes the H.P.M.S. V (Scythe 5th Gen) spring-loaded mounting system, ensuring secure fit and optimal contact pressure for Intel LGA1700, LGA1200, LGA115x, LGA 2066, and AMD AM5 & AM4 platforms.
- **Excellent Compatibility:** Heatsink offset design prevents interference with RAM slots and VRM heatsinks on most motherboards.
- **Silent Operation:** Equipped with a Scythe Wonder Tornado 120mm fan, featuring a 9-blade vortex-type design for quiet performance up to 2000 RPM.

2. Package Contents

Verify that all components listed below are present in your Scythe Mugen 6 package before proceeding with installation.



Figure 2: All components included in the Scythe Mugen 6 package.

- Scythe Mugen 6 Heatsink (with pre-attached fan clips)
- Scythe Wonder Tornado 120mm Fan
- Mounting Hardware Kit for Intel and AMD sockets (backplates, mounting arms, screws, spacers)
- Thermal Paste
- Screwdriver
- Instruction Manual

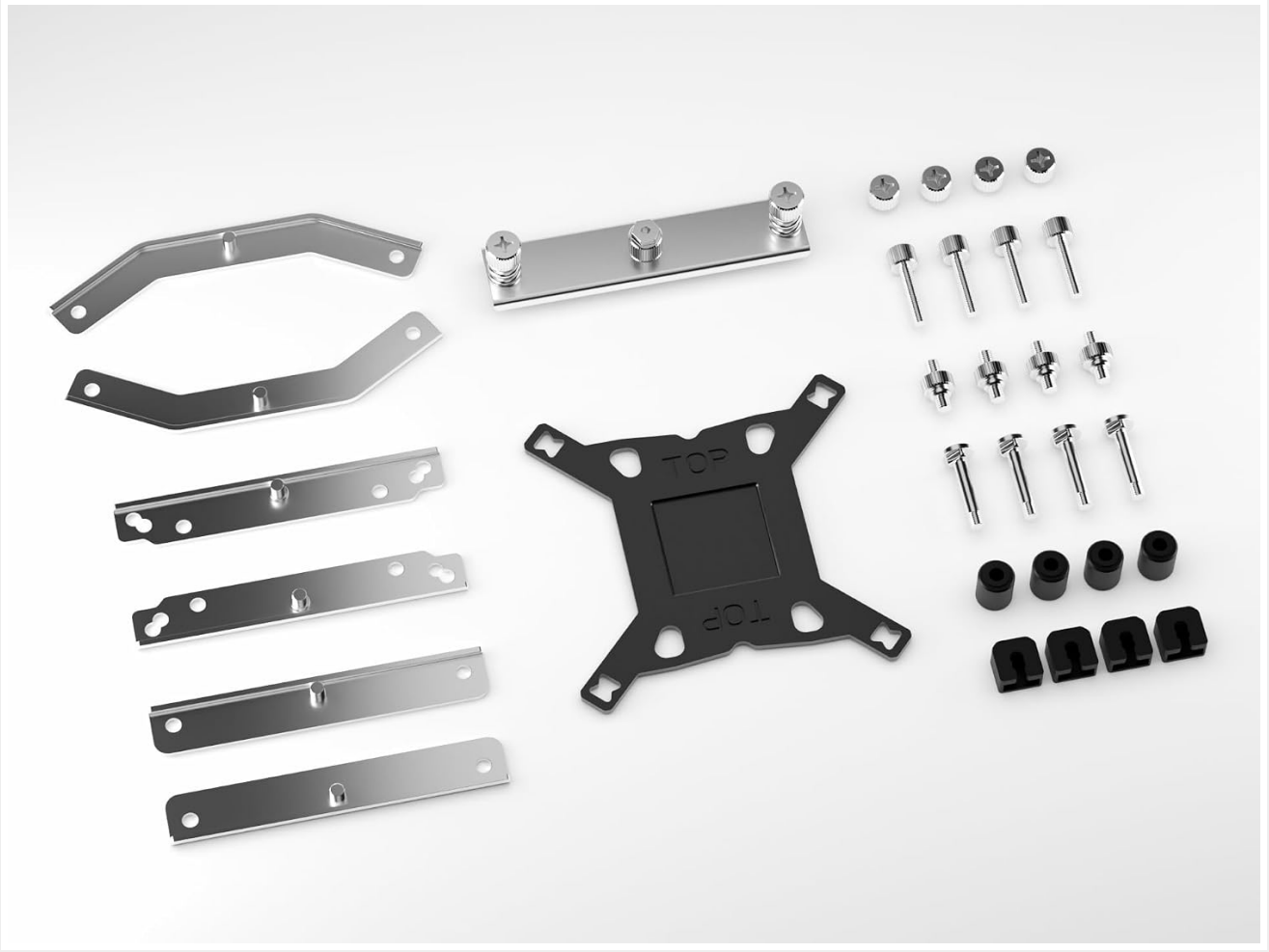


Figure 3: Detailed view of the mounting hardware components.

3. Compatibility

The Scythe Mugen 6 CPU Air Cooler is compatible with a wide range of CPU sockets:

- **Intel:** LGA1700, LGA1200, LGA115x (LGA1150, LGA1151, LGA1155, LGA1156), LGA 2066
- **AMD:** AM5, AM4

Ensure your motherboard and PC case have sufficient clearance for the cooler's dimensions (4.17"L x 6.06"W x 5.19"H).

4. Installation Guide

Before beginning installation, ensure your computer is powered off and unplugged. Refer to your motherboard manual for specific instructions on CPU and RAM installation if not already done.

4.1 Prepare the Motherboard

1. Place the appropriate backplate (Intel or AMD) behind the motherboard, aligning the holes with the CPU socket mounting holes.
2. Insert the standoffs through the motherboard from the front, securing them into the backplate.
3. Attach the correct mounting arms to the standoffs using the provided screws. Ensure they are tightened evenly.

4.2 Apply Thermal Paste

1. Clean the CPU surface with isopropyl alcohol to remove any dust or old thermal paste.

2. Apply a small amount of thermal paste (pea-sized dot or a thin line) to the center of the CPU's Integrated Heat Spreader (IHS). Do not spread it manually; the pressure from the cooler will distribute it evenly.

4.3 Mount the Heatsink

1. Carefully place the heatsink onto the CPU, aligning the mounting screws on the heatsink's base with the holes on the mounting arms.
2. Using the included screwdriver, tighten the screws in an alternating diagonal pattern (e.g., top-left, bottom-right, top-right, bottom-left) until snug. Do not overtighten.

4.4 Attach the Fan

1. Attach the 120mm fan to the heatsink using the provided fan clips. Ensure the fan is oriented to push air through the heatsink towards the rear of the case.
2. Connect the fan's 4-pin PWM cable to the CPU_FAN header on your motherboard.



Figure 4: Scythe Mugen 6 cooler installed on a motherboard, demonstrating RAM clearance.

5. Operation

Once installed, the Scythe Mugen 6 operates automatically. The 4-pin PWM fan will adjust its speed based on CPU temperature, as controlled by your motherboard's BIOS/UEFI settings. This ensures optimal cooling performance while minimizing noise levels during lighter loads.

- **BIOS/UEFI Settings:** You can typically adjust fan curves in your motherboard's BIOS/UEFI to customize the fan's behavior according to your preferences for noise and cooling performance.
- **Monitoring:** Use system monitoring software to keep track of CPU temperatures and fan speeds to ensure proper operation.

6. Maintenance

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

- **Dust Removal:** Periodically (e.g., every 3-6 months), power off your computer and use compressed air to gently blow dust out of the heatsink fins and fan blades. Hold the fan blades to prevent them from spinning rapidly during cleaning, which can damage the bearings.
- **Thermal Paste Reapplication:** 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 base and apply fresh thermal paste before reinstallation.

7. Troubleshooting

If you encounter issues with your Scythe Mugen 6 cooler, consider the following common troubleshooting steps:

- **High CPU Temperatures:**
  - Ensure the cooler is securely mounted and making good contact with the CPU.
  - Verify that thermal paste was applied correctly and evenly.
  - Check fan orientation; air should flow through the heatsink and out of the case.
  - Clean any dust buildup from the heatsink fins and fan.
  - Confirm fan is connected to the CPU_FAN header and spinning.
- **Fan Not Spinning or Excessive Noise:**
  - Check the fan cable connection to the motherboard.
  - Inspect for any obstructions preventing the fan blades from spinning.
  - Review BIOS/UEFI fan settings; ensure the fan curve is not set too aggressively or too low.
  - Clean dust from fan blades.
- **Installation Difficulties:**
  - Double-check that you are using the correct mounting hardware for your CPU socket.
  - Refer to the instruction manual and diagrams carefully for each step.
  - Ensure sufficient clearance within your PC case for the cooler's dimensions.

8. Specifications

Technical specifications for the Scythe Mugen 6 CPU Air Cooler (Model SCMG-6000).

Feature	Specification
Model Number	SCMG-6000
Brand	SCYTHE
Product Dimensions (L x W x H)	4.17" x 6.06" x 5.19" (106mm x 154mm x 132mm)
Weight	3.33 Pounds (approx. 1.51 kg)
Cooling Method	Air

Feature	Specification
Heat Pipes	6 Nickel-Plated Copper Heat Pipes
Fan Model	Scythe Wonder Tornado 120mm
Maximum Rotational Speed	2000 RPM
Air Flow Capacity	60.29 Cubic Feet Per Minute (CFM)
Power Connector Type	4-Pin PWM
Voltage	12 Volts
Wattage	35 watts
Material	Aluminum (fins), Copper (heat pipes, base)
Compatible Devices	Desktop CPUs
Supported Sockets	Intel: LGA1700, LGA1200, LGA115x, LGA 2066 AMD: AM5, AM4

9. Warranty and Support

Scythe products are manufactured to high quality standards and come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official Scythe website.
For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact Scythe customer service through their official website or the retailer from whom you purchased the product.

- **Official Scythe Website:** www.scythe-eu.com (or regional equivalent)
- **Retailer Support:** Contact your point of purchase for initial support.