

upHere H45K6

upHere H45K6 Low Profile CPU Cooler Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your upHere H45K6 Low Profile CPU Cooler. Designed for compact systems, this cooler features a 45mm height, 6 heat pipes, and a 90mm PWM fan to deliver efficient cooling for CPUs with up to 150W TDP. It is compatible with a wide range of Intel and AMD sockets, including LGA 1851/1700/115x/1200/2011/2066 and AM5/AM4/AM3. Please read this manual thoroughly before installation to ensure proper setup and optimal performance.

2. PACKAGE CONTENTS

Verify that all components are present in your package:

- upHere H45K6 CPU Cooler (Heatsink with pre-attached 90mm PWM Fan)
- Intel Mounting Brackets
- AMD Mounting Brackets
- Mounting Screws and Spacers
- Thermal Paste Syringe
- Thermal Paste Spreader

QUICK INSTALLATION

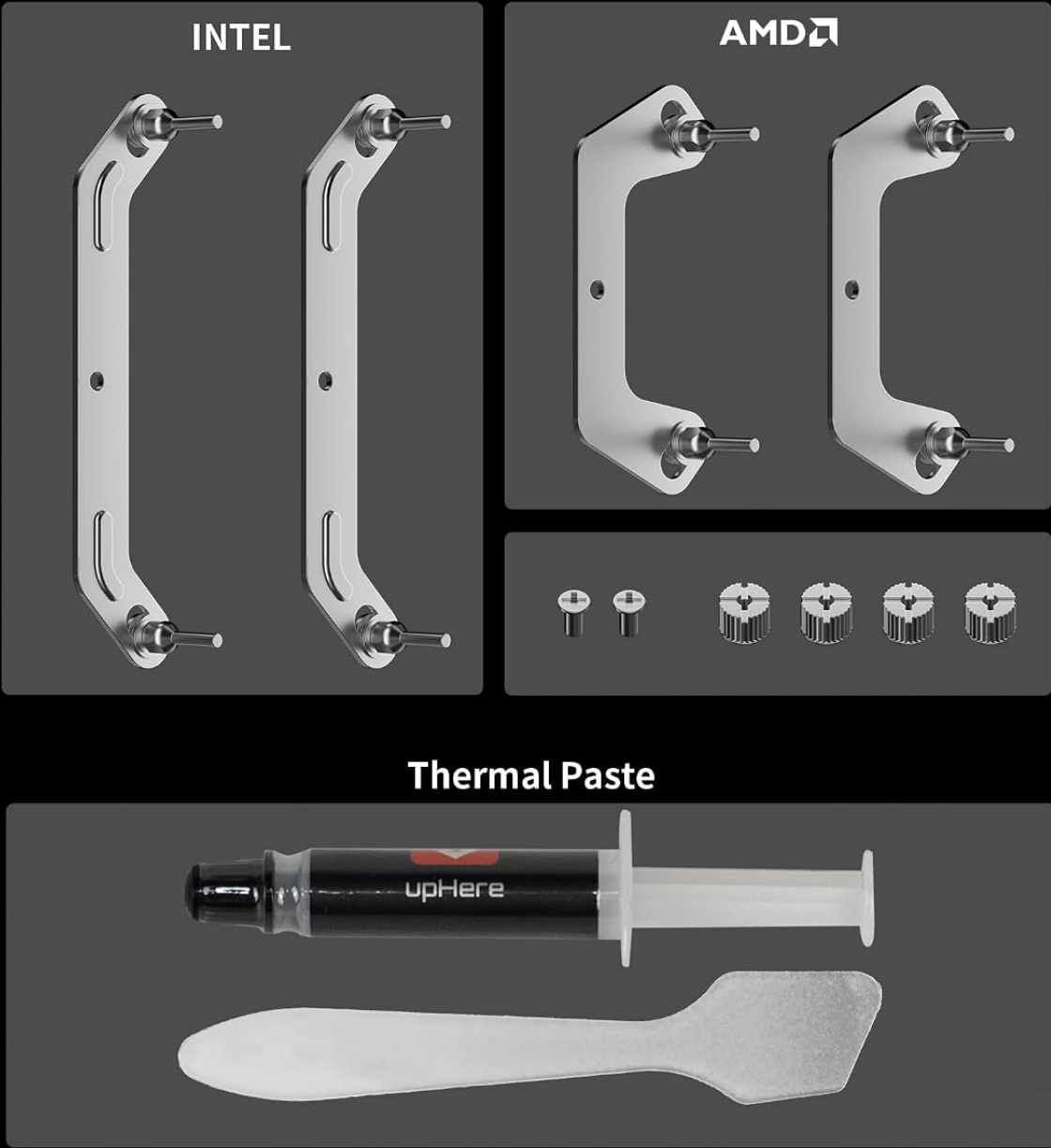


Image: Components included with the upHere H45K6 CPU Cooler, showing the cooler, various mounting brackets, screws, and thermal paste.

3. SPECIFICATIONS

Feature	Specification
Model	H45K6
Height	45mm (1.77in)

Feature	Specification
Heat Pipes	6 x Ø6mm
TDP	150W
Fan Size	90mm PWM
Fan Speed	800-2800 RPM ±10%
Airflow	35.34 CFM
Noise Level	≤27 dB(A) Max
Material	Aluminum (Heatsink)
Compatible Sockets	Intel LGA 1851/1700/115x/1200/2011/2066, AMD AM5/AM4/AM3

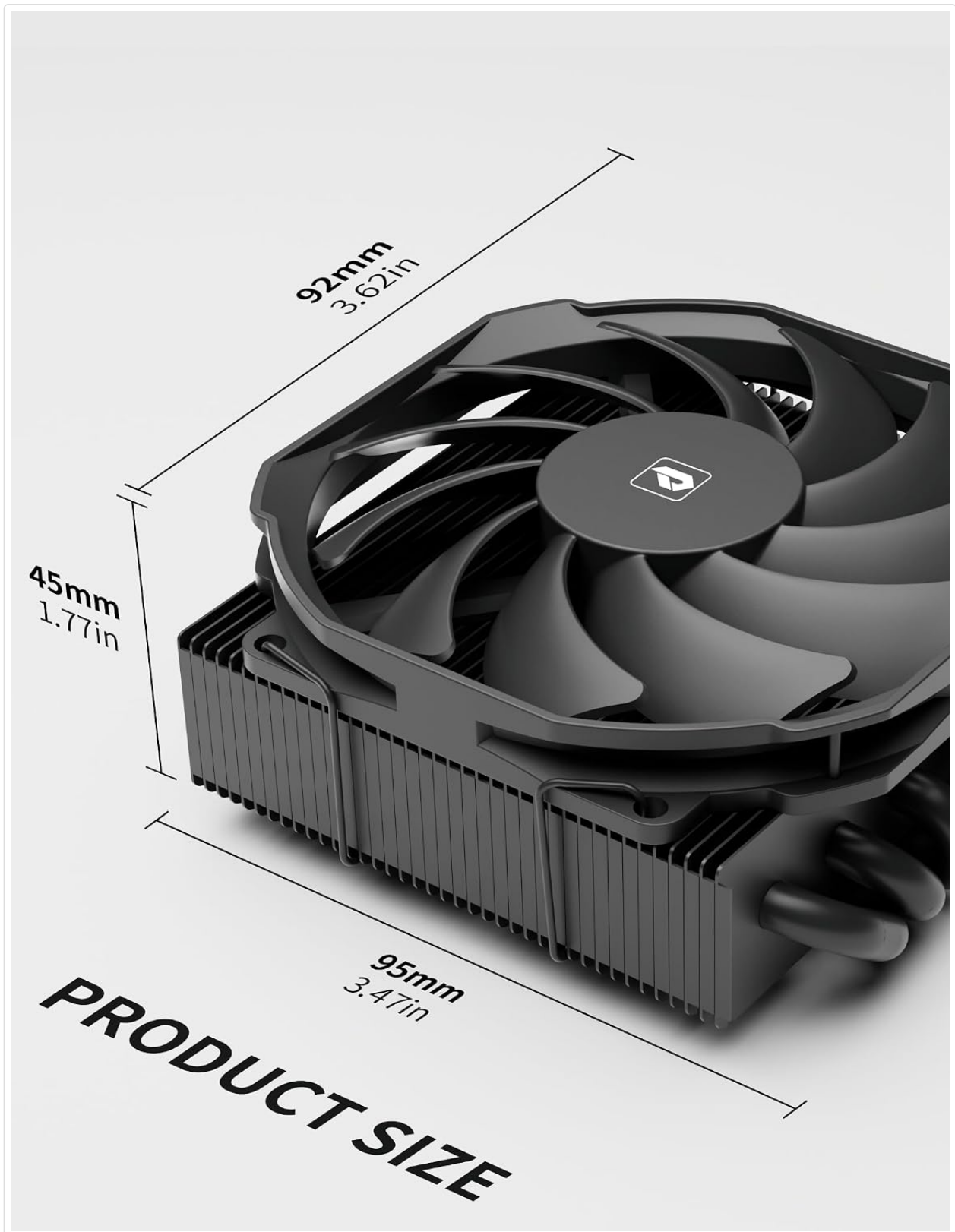


Image: Dimensional overview of the upHere H45K6 CPU Cooler.

4. INSTALLATION GUIDE

The upHere H45K6 CPU Cooler supports both Intel and AMD platforms. Follow the specific instructions for your CPU socket type. Ensure your system is powered off and unplugged before beginning installation.

Your browser does not support the video tag.

Video: Official installation guide for the upHere H45K6 CPU Air Cooler, demonstrating steps for both Intel and AMD platforms.

4.1. Intel Installation (LGA 1851/1700/115x/1200/2011/2066)

1. **Prepare the CPU:** Open the CPU socket retention arm, insert your Intel CPU, and close the retention arm.
2. **Attach Intel Brackets to Cooler:** Secure the Intel mounting brackets to the base of the cooler using the provided screws. Ensure the brackets are oriented correctly.
3. **Apply Thermal Paste:** Apply a small amount of thermal paste (pea-sized dot or thin line) to the center of the CPU's integrated heat spreader (IHS). Use the spreader to evenly distribute a thin layer across the surface.
4. **Position Cooler:** Carefully place the CPU cooler onto the CPU, aligning the mounting screws on the cooler brackets with the holes on the motherboard.
5. **Secure Cooler:** From the backside of the motherboard, attach the standoffs and then the nuts to secure the cooler. Tighten them in a diagonal pattern until snug. Do not overtighten.
6. **Connect Fan Cable:** Connect the 4-pin PWM fan cable from the cooler to the CPU_FAN header on your motherboard.



Image: The H45K6 cooler installed on a motherboard, demonstrating its compact size and RAM compatibility.

4.2. AMD Installation (AM5/AM4/AM3)

1. **Prepare the CPU:** Open the CPU socket retention arm, insert your AMD CPU, and close the retention arm.
2. **Remove Stock Brackets (if applicable):** Remove the plastic retention clips from the stock AMD backplate on your motherboard. Keep the original backplate in place.
3. **Attach AMD Brackets to Cooler:** Secure the AMD mounting brackets to the base of the cooler using the provided screws. Ensure the brackets are oriented correctly.

4. **Apply Thermal Paste:** Apply a small amount of thermal paste (pea-sized dot or thin line) to the center of the CPU's integrated heat spreader (IHS). Use the spreader to evenly distribute a thin layer across the surface.
5. **Position Cooler:** Carefully place the CPU cooler onto the CPU, aligning the mounting screws on the cooler brackets with the holes on the motherboard's backplate.
6. **Secure Cooler:** From the backside of the motherboard, attach the standoffs and then the nuts to secure the cooler. Tighten them in a diagonal pattern until snug. Do not overtighten.
7. **Connect Fan Cable:** Connect the 4-pin PWM fan cable from the cooler to the CPU_FAN header on your motherboard.

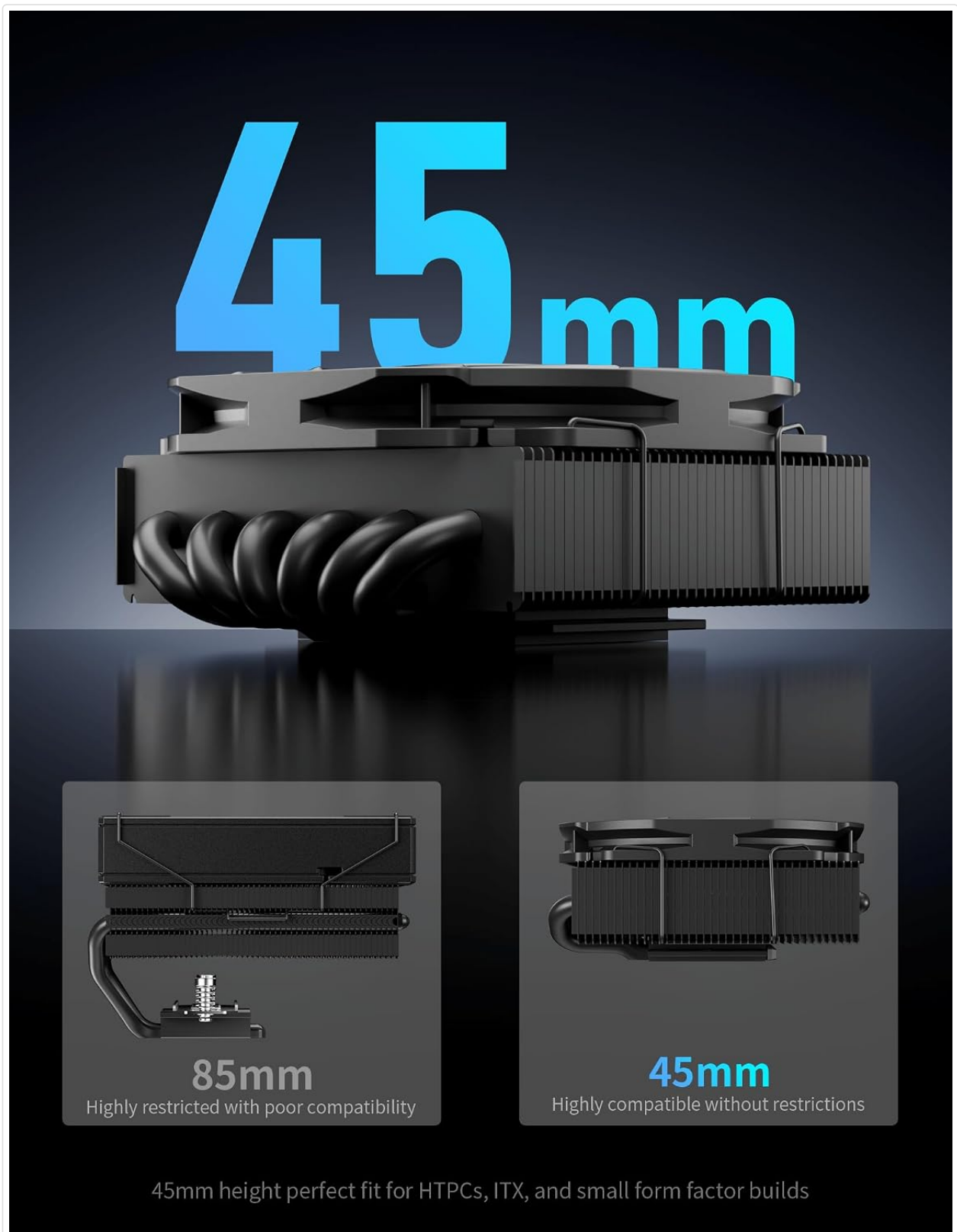


Image: The 45mm height of the H45K6 cooler, ideal for small form factor cases.

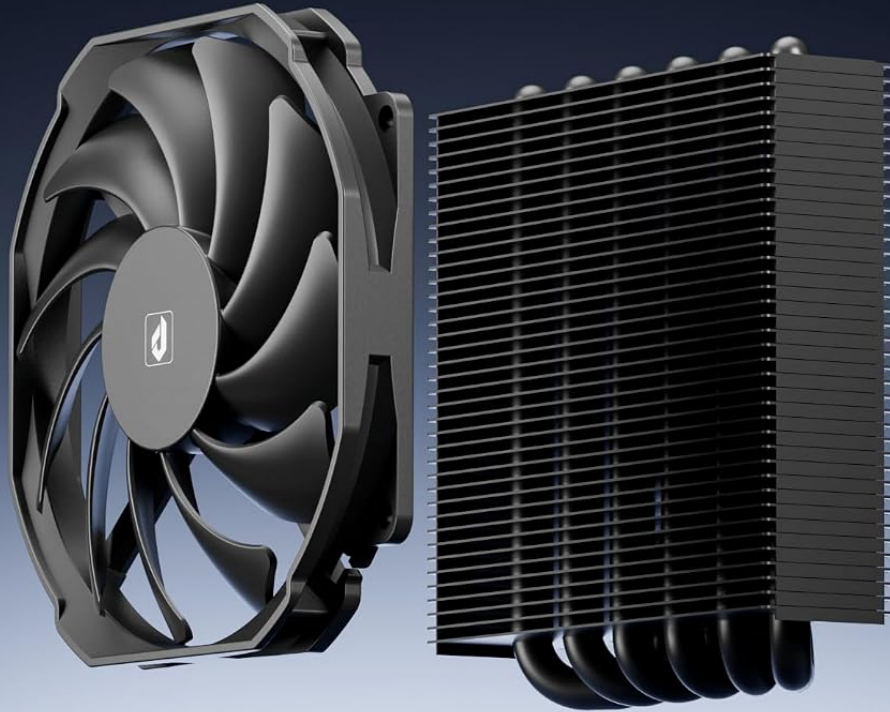
5. OPERATION

Once installed, the upHere H45K6 CPU Cooler operates automatically, with its PWM fan adjusting speed based on CPU temperature. For optimal performance:

- Ensure adequate airflow within your PC case.
- Monitor CPU temperatures using motherboard software or third-party utilities to confirm effective cooling, especially under heavy loads.
- The 90mm PWM fan is designed for quiet operation (≤ 27 dB(A) Max) while providing sufficient airflow (35.34 CFM).

COMPACT . POWERFUL . SILENT

Strong airflow for uncompromised cooling performance



Noise



≤27 dB(A) MAX

Speed



800-2800 RPM ± 10%

Air Flow



35.34 CFM

Air Pressure



1.94mm/H₂O

Image: The 90mm PWM fan and heatsink design, highlighting low noise and high airflow capabilities.

6. MAINTENANCE

Regular maintenance helps prolong the life and efficiency 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.
- **Thermal Paste:** Reapply thermal paste if you remove the cooler from the CPU for any reason. Old thermal paste can lose effectiveness over time.

- **Fan Inspection:** Check the fan for any unusual noises or wobbling, which may indicate wear or damage.

7. TROUBLESHOOTING

If you encounter issues with your CPU cooler, consider the following:

- **High CPU Temperatures:**
 - Verify the cooler is securely mounted and making proper contact with the CPU.
 - Check if thermal paste was applied correctly and evenly.
 - Ensure the fan cable is properly connected to the CPU_FAN header and the fan is spinning.
 - Clean any dust buildup on the heatsink fins.
 - Confirm adequate case airflow and proper orientation of case fans.
- **Fan Not Spinning:**
 - Check the fan cable connection to the motherboard.
 - Ensure the CPU_FAN header is enabled in your motherboard's BIOS/UEFI settings.
 - Test the fan with another fan header if available, or try a different fan to isolate the issue.
- **Excessive Fan Noise:**
 - Check for any cables or obstructions hitting the fan blades.
 - Ensure the fan is securely mounted and not vibrating.
 - Adjust fan speed curves in your motherboard's BIOS/UEFI or fan control software.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official upHere website or contact their customer service directly. Keep your proof of purchase for warranty claims.