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Sudokoo SK700 AM5 Air Cooler Instruction Manual

1. INTRODUCTION

Thank you for choosing the Sudokoo SK700 AM5 Air Cooler. This high-performance single-tower CPU cooler is designed exclusively for AMD AM5 sockets, featuring seven heatpipes and a 120mm FDB PWM quiet fan to ensure efficient and silent cooling for your system. This manual provides essential information for proper installation, operation, and maintenance of your cooler.

Sudakoo

SK700

A single-tower, seven-heat pipe premium air cooler that offers outstanding thermal efficiency for **AM5** platform.

**AM5
ONLY**

**TDP:
220W**



Figure 1.1: Sudakoo SK700 AM5 Air Cooler

2. SAFETY INFORMATION

- Always disconnect power from your computer before installation or maintenance.
- Handle components with care to avoid damage.
- Wear anti-static gloves to prevent electrostatic discharge (ESD) damage to sensitive components.
- Ensure proper ventilation in your PC case for optimal cooling performance.
- This cooler is mechanically incompatible with the MSI MAG B850M Mortar (WIFI) motherboard. Verify motherboard compatibility before installation.

3. WHAT'S IN THE Box

Verify that all components are present before beginning installation:

- CPU Air Cooler (Heatsink with pre-installed fan)
- AMD AM5 Brackets
- Thermal Paste
- Instruction Manual

- Mounting Accessories (screws, spacers, etc.)

4. SPECIFICATIONS

Feature	Specification
Product Dimensions (L x W x H)	5.75" x 3.82" x 6.46" (146mm x 97mm x 164mm)
Brand	Sudokoo
Power Connector Type	4-Pin PWM
Voltage	12 Volts
Wattage	3 watts
Cooling Method	Air
Compatible Devices	AMD AM5 CPUs
Noise Level	32.5 Decibels (Max)
Maximum Rotational Speed	2200 RPM
Air Flow Capacity	66.29 Cubic Feet Per Minute (CFM)
Heatpipes	7
TDP	220W

DIMENSION SK700

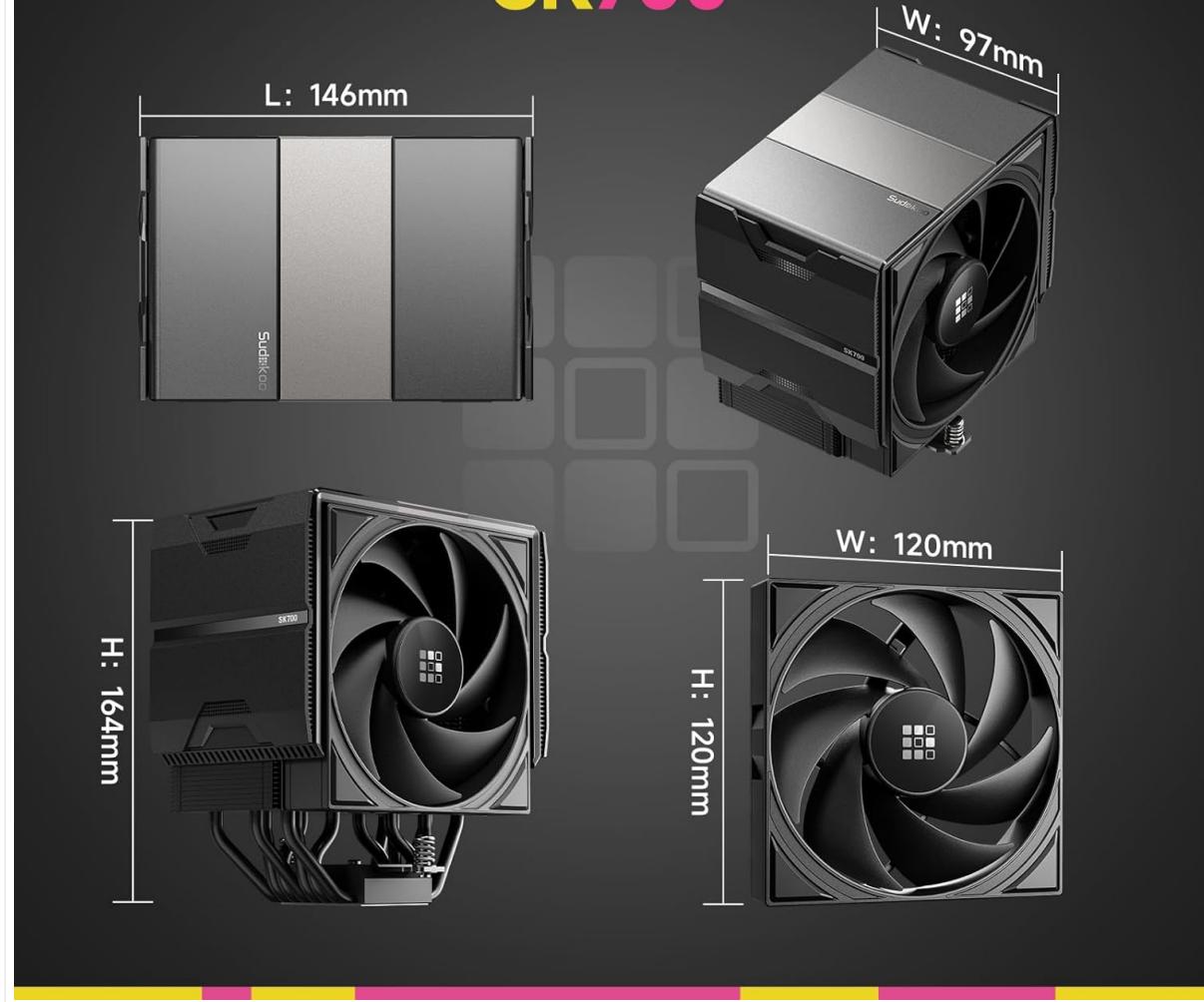


Figure 4.1: Sudokoo SK700 AM5 Air Cooler Dimensions

5. INSTALLATION GUIDE

Follow these steps for installing your Sudokoo SK700 AM5 Air Cooler:

- 1. Prepare Motherboard:** Ensure your motherboard is placed horizontally. Remove the original CPU retention mechanism from your AM5 motherboard.
- 2. Install Anti-Bend Bracket:** Replace the original Integrated Loading Mechanism (ILM) on your motherboard with the exclusive AM5 CPU anti-bend bracket provided. This anodized and sandblasted bracket is designed to accurately fit the AM5 CPU socket size, minimizing contact between thermal grease and CPU capacitors, providing double protection.

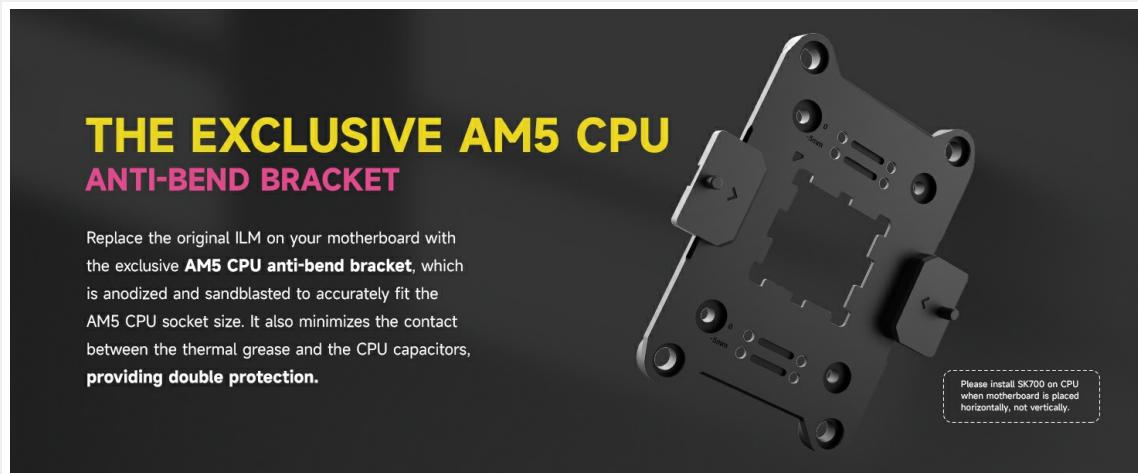


Figure 5.1: AM5 CPU Anti-Bend Bracket

3. **Apply Thermal Paste:** Apply a small amount of the included thermal paste to the center of your CPU's Integrated Heat Spreader (IHS).
4. **Mount Heatsink:** Position the heatsink onto the CPU, aligning it with the mounting points on the anti-bend bracket. Secure the heatsink using the provided screws.



Figure 5.2: Cooler Base with 7 Heatpipes

5. **Attach Fan:** The SK700 features an L-Rail Lock Mount design for effortless installation. Slide the 120mm FDB PWM fan onto the heatsink rails until it clicks securely into place. This tool-free method allows for easy fan removal and maintenance.

L-RAIL LOCK MOUNT DESIGN

A slide-rail fixing method makes installation simple and quick.



Figure 5.3: L-Rail Lock Mount Design for Fan Installation

6. **Connect Fan Cable:** Connect the 4-pin PWM fan cable to the CPU_FAN header on your motherboard.
7. **Verify RAM Clearance:** The angled offset heatpipe design ensures full RAM clearance, allowing unobstructed access to your RAM slots and compatibility with tall heat spreaders.

GUARANTEED RAM COMPATIBILITY

The **angled offset** heat pipe design provides **unobstructed** access to your RAM slots.



Figure 5.4: Full RAM Clearance with SK700 Cooler

Installation Video Guide

Your browser does not support the video tag.

Video 5.1: Sudokoo SK700/SK700V AM5 CPU Air Cooler Installation Overview. This video demonstrates the installation process for the SK700 series, including the anti-bend bracket and fan mounting.

6. OPERATING INSTRUCTIONS

The Sudokoo SK700 AM5 Air Cooler is designed for optimal performance and quiet operation.

- PWM Fan Control:** The 120mm FDB PWM fan operates with adjustable speeds from 500 to 2200 RPM ($\pm 10\%$). Your motherboard's BIOS or fan control software can manage these speeds based on CPU temperature, ensuring an ideal balance of cooling and silence.
- 0 RPM Mode:** The fan supports a 0 RPM mode under 5% PWM load, utilizing Intelligent Start Stop Tech (ISST). This feature ensures zero noise during low-load scenarios, contributing to environmental protection and energy saving while extending the device's lifespan.



Figure 6.1: SK700 Fan and Heatsink Design

- **Efficient Heat Flow:** The enclosed single-tower heatsink design, combined with seven heat pipes, ensures ultimate cooling performance with superb quietness of operation.

7. MAINTENANCE

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

- **Dust Removal:** Periodically clean the fan blades and heatsink fins to remove accumulated dust. Use compressed air or a soft brush. Ensure the fan is not spinning during cleaning.
- **Fan Removal:** The L-Rail Lock Mount allows for easy, tool-free removal of the fan for thorough cleaning. Simply slide the fan off the heatsink.
- **Thermal Paste:** Reapply thermal paste every 2-3 years, or if you remove the cooler for any reason, to maintain efficient heat transfer.

8. TROUBLESHOOTING

If you encounter issues with your Sudokoo SK700 AM5 Air Cooler, refer to the following common solutions:

- **High CPU Temperatures:**
 - Ensure the cooler is securely mounted and making full contact with the CPU.
 - Verify that thermal paste was applied correctly and evenly.
 - Check for dust buildup on the heatsink and fan; clean if necessary.
 - Confirm that the fan is spinning and connected to the CPU_FAN header.
 - Ensure adequate airflow within your PC case.
- **Fan Not Spinning:**
 - Check the 4-pin PWM cable connection to the motherboard's CPU_FAN header.
 - Verify fan settings in your motherboard's BIOS/UEFI. The 0 RPM mode activates under low load, so the fan may not spin if the CPU is idle.
 - Inspect the fan for any obstructions.
- **Excessive Fan Noise:**
 - Check for loose fan mounting or vibrations.
 - Clean the fan blades to remove any debris that might cause imbalance.
 - Adjust fan speed curves in your motherboard's BIOS/UEFI to a quieter profile if temperatures allow.

9. WARRANTY AND SUPPORT

The Sudokoo SK700 AM5 Air Cooler comes with a **5-year warranty** from the date of purchase, covering manufacturing defects and malfunctions under normal use.

For technical support, warranty claims, or further assistance, please visit the official Sudokoo website or contact your retailer. Keep your proof of purchase for warranty validation.

Official Product Page: [Sudokoo SK700 AM5 Product Overview](#)