

Xilence XC032

Xilence Performance C CPU Cooler XC032

User Instruction Manual

1. INTRODUCTION

The Xilence Performance C CPU Cooler XC032 is engineered to provide efficient and quiet cooling for high-performance Intel CPUs. Featuring a 92mm PWM fan with fluid bearing, it ensures optimal airflow while maintaining low noise levels. This cooler is designed for compatibility with various Intel sockets and includes a stable mounting backplate for secure installation.

2. SAFETY INFORMATION

- Always disconnect power from your computer before installing or performing maintenance on any internal components.
- Handle the CPU cooler and other components with care to avoid damage to sensitive parts.
- Ensure proper grounding to prevent electrostatic discharge (ESD) which can damage electronic components.
- Keep out of reach of children.
- Do not obstruct the fan's airflow during operation.
- Refer to your motherboard's manual for specific CPU cooler installation guidelines.

3. PACKAGE CONTENTS

Verify that all components listed below are present in your package:

- I250PWM Intel CPU Cooler
- 92 mm PWM Fan (integrated)
- Fan Screws
- Thermal Paste (pre-applied or in a tube)
- Backplate

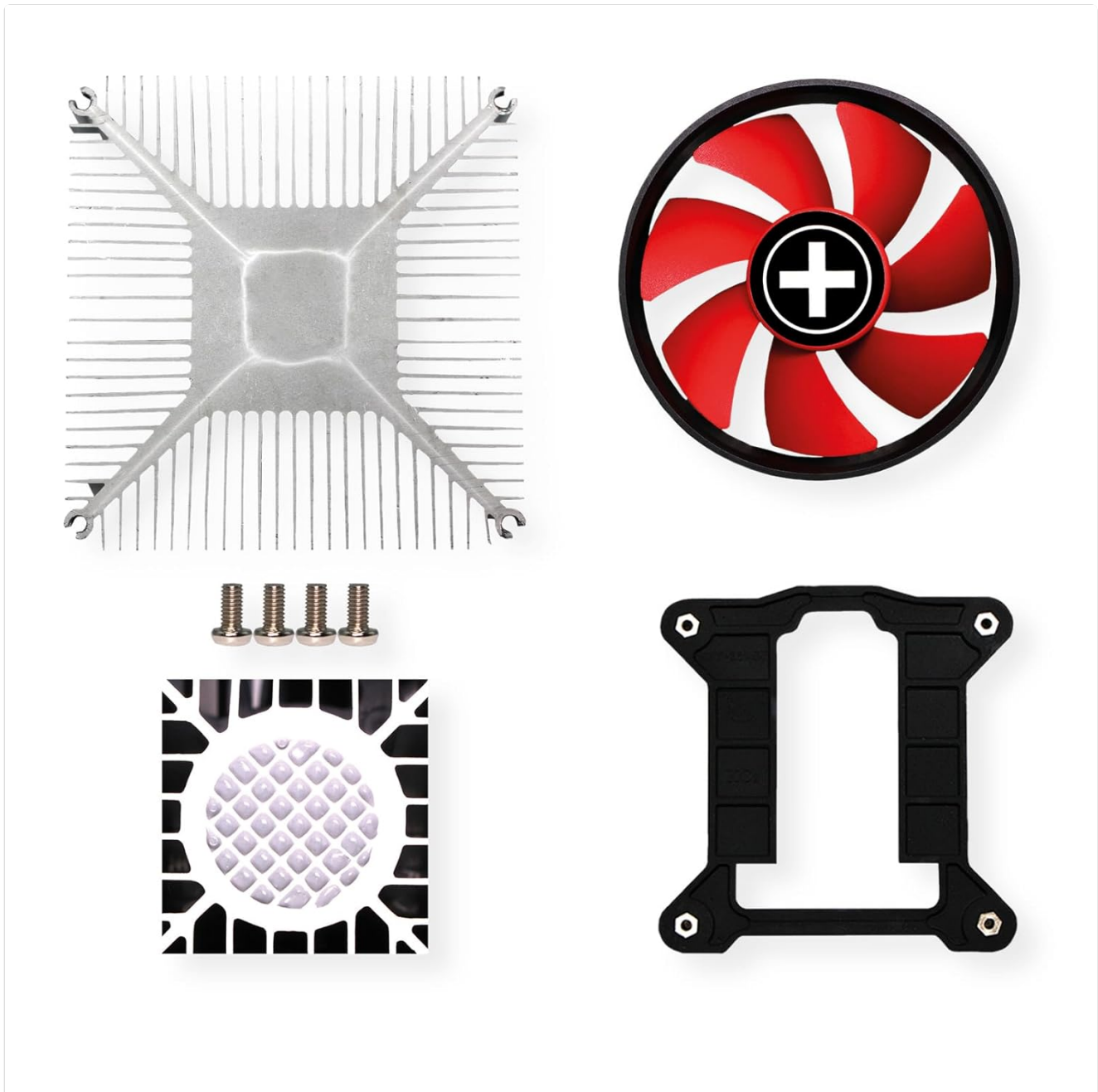


Figure 3.1: All components included in the Xilence Performance C CPU Cooler XC032 package.

4. SETUP AND INSTALLATION

Follow these general steps for installing your Xilence Performance C CPU Cooler. Specific steps may vary slightly depending on your motherboard and PC case.

1. **Prepare the Motherboard:** Place the motherboard on a non-conductive surface. If a CPU is already installed, ensure it is properly seated in the socket.
2. **Install the Backplate:** Position the included backplate on the rear side of the motherboard, aligning its holes with the CPU cooler mounting holes around the CPU socket. This cooler is compatible with Intel sockets 1150, 1151, 1155, and 1156.



Figure 4.1: CPU Cooler with separate backplate.

3. **Apply Thermal Paste (if not pre-applied):** If your cooler does not have thermal paste pre-applied to its base, apply a small amount (pea-sized dot) to the center of the CPU's integrated heat spreader (IHS).
4. **Mount the Cooler:** Carefully place the CPU cooler onto the CPU, aligning the mounting screws with the holes in the backplate. Press down gently and evenly.
5. **Secure the Cooler:** Tighten the four spring-loaded screws in a diagonal pattern (e.g., top-left, bottom-right, top-right, bottom-left) until they are finger-tight. Do not overtighten. The spring mechanism ensures even pressure.



Figure 4.2: Angled view of the cooler showing the fan and heatsink.

6. **Connect the Fan Cable:** Locate the 4-pin PWM fan header on your motherboard (usually labeled "CPU_FAN") and connect the cooler's 4-pin cable to it. Ensure the connector is fully seated.
7. **Final Check:** Double-check all connections and ensure the cooler is securely mounted and not obstructing any other components.

5. OPERATING INSTRUCTIONS

The Xilence Performance C CPU Cooler XC032 operates automatically via its PWM (Pulse Width Modulation) control. The motherboard's BIOS/UEFI or operating system software will regulate the fan speed based on the CPU temperature, ensuring optimal cooling performance and noise levels.

- **Automatic Fan Control:** The 4-pin PWM connection allows the motherboard to dynamically adjust the fan speed (RPM) according to the CPU's thermal load. This results in quieter operation during low-load tasks and increased cooling power when needed.
- **Monitoring:** You can monitor CPU temperatures and fan speeds using motherboard monitoring software or utilities provided by your operating system.
- **Noise Level:** The fan is designed for quiet operation, with a typical noise level of 26.4 dB.

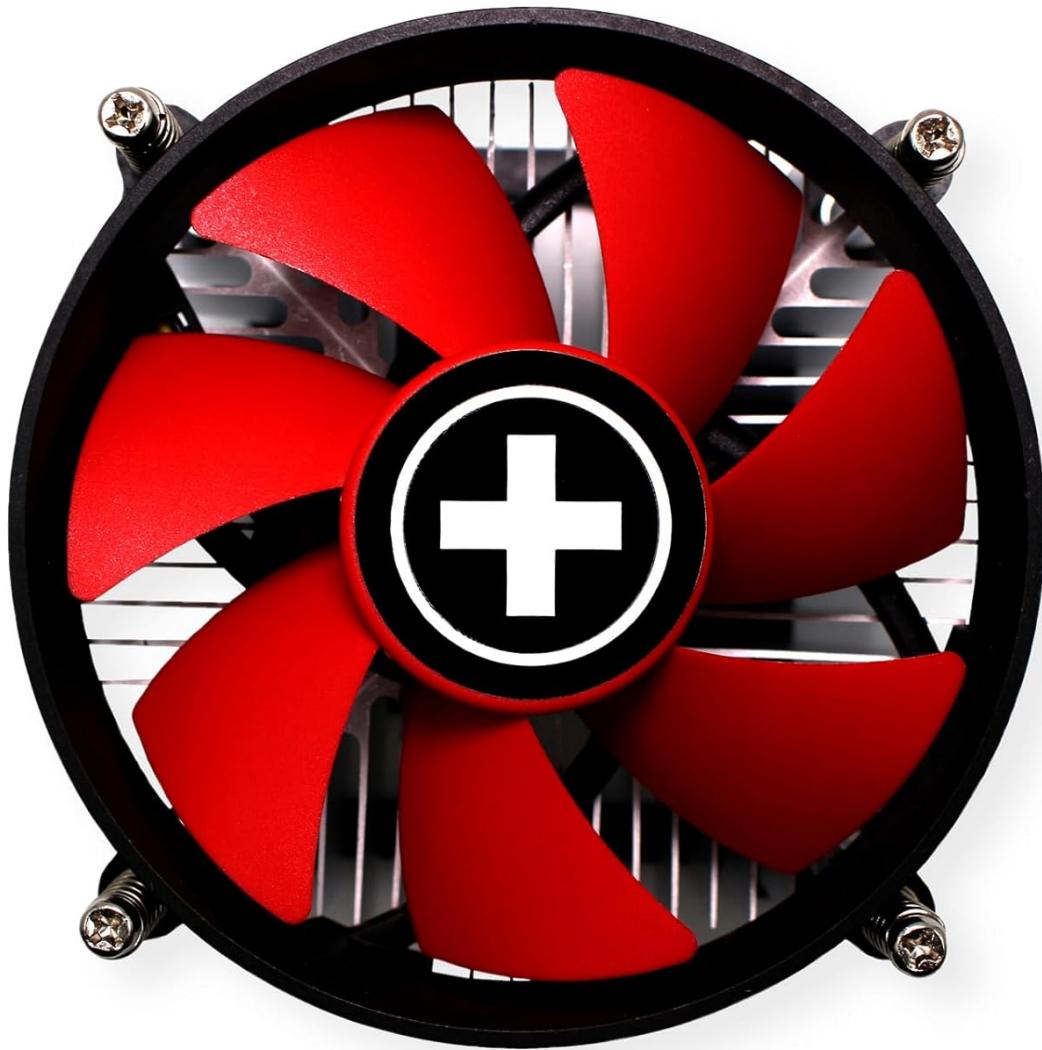


Figure 5.1: Top view of the CPU cooler fan.

6. MAINTENANCE

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

- **Dust Removal:** Periodically (e.g., every 3-6 months), use compressed air to gently blow dust out of the heatsink fins and fan blades. Ensure the fan is not spinning rapidly during this process to prevent damage to the bearings.
- **Fan Cleaning:** If dust accumulates on the fan blades, carefully wipe them with a soft, dry cloth.
- **Thermal Paste:** The thermal paste typically lasts for several years. If you notice significantly higher CPU temperatures over time, consider reapplying fresh thermal paste after carefully cleaning the old paste from both the CPU and cooler base.
- **Inspection:** Regularly inspect the mounting screws to ensure they remain secure.

7. TROUBLESHOOTING

If you encounter issues with your CPU cooler, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan not spinning	Fan cable disconnected; Faulty fan header; Fan failure	Check fan cable connection to motherboard; Try a different fan header; Replace cooler if fan is faulty.
High CPU temperatures	Improper cooler mounting; Insufficient thermal paste; Dust accumulation; Poor case airflow	Re-seat cooler, ensuring even pressure; Reapply thermal paste; Clean heatsink and fan; Improve case ventilation.
Excessive fan noise	Dust in fan bearings; Fan hitting cables; High fan speed due to high CPU load	Clean fan; Ensure no cables are obstructing fan blades; Check CPU load and temperatures; Adjust fan curve in BIOS/UEFI if desired.

8. SPECIFICATIONS

Key technical specifications for the Xilence Performance C CPU Cooler XC032:

Feature	Specification
Model Number	XC032
Product Dimensions	3.94 x 3.94 x 3.15 inches (10 x 10 x 8 cm)
Weight	11.46 ounces (325 grams)
Compatible Sockets	Intel LGA 1150, 1151, 1155, 1156
Compatible Devices	Core i7/i5/i3, Pentium G9650
Cooling Method	Air
Fan Diameter	92 mm
Fan Connector	4-Pin PWM
Maximum Rotational Speed	2500 RPM
Air Flow Capacity	44.25 CFM (75.2 M³/H)
Noise Level	26.4 dB
TDP (Thermal Design Power)	Up to 95 Watts
Voltage	12 Volts
Material	Aluminum

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the retailer/manufacturer directly. Xilence products typically come with a manufacturer's warranty covering defects in materials and workmanship.

- **Manufacturer Website:** Visit the official Xilence website for the most up-to-date support resources, FAQs, and contact information.
- **Proof of Purchase:** Retain your proof of purchase (receipt or invoice) as it may be required for warranty claims.

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Model: XC032