ID-COOLING IS-47-XT

ID-COOLING IS-47-XT Low Profile CPU Cooler User Manual

Model: IS-47-XT | Brand: ID-COOLING

INTRODUCTION

The ID-COOLING IS-47-XT is a compact, low-profile CPU cooler designed for systems with limited space, such as Home Theater Personal Computers (HTPCs), Mini-ITX builds, and other Small Form Factor (SFF) cases. With a total height of only 47mm, it provides efficient cooling performance while maintaining excellent compatibility with various components, including RAM modules. This manual provides detailed instructions for installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your cooler.

Image: The ID-COOLING IS-47-XT low profile CPU cooler, showcasing its compact design.

PRODUCT OVERVIEW

Key Features

- **Ultra-Compact Design:** Only 47mm total height, ideal for HTPCs, ITX, and SFF builds.

- **Efficient Heat Dissipation:** Features a copper base and 4 heat pipes for excellent heat transfer from the CPU.

- **PWM Fan:** Equipped with a 92x92x15mm PWM fan for automatic speed control, low noise operation, and a maximum airflow of 46 CFM.

- **RAM Compatibility:** Small size ensures excellent memory compatibility, even on Mini-ITX motherboards.

- **Broad Compatibility:** Supports Intel LGA1700/1200/1151/1150/1155/1156 sockets. AMD AM5/AM4 sockets require extra brackets (sold separately).

- **All-Black Design:** Aesthetically pleasing all-black finish.

Components Included

The ID-COOLING IS-47-XT package includes the following components:

- Heatsink assembly with integrated 92x92x15mm PWM fan
- Mounting hardware kit for Intel sockets
- Thermal paste syringe
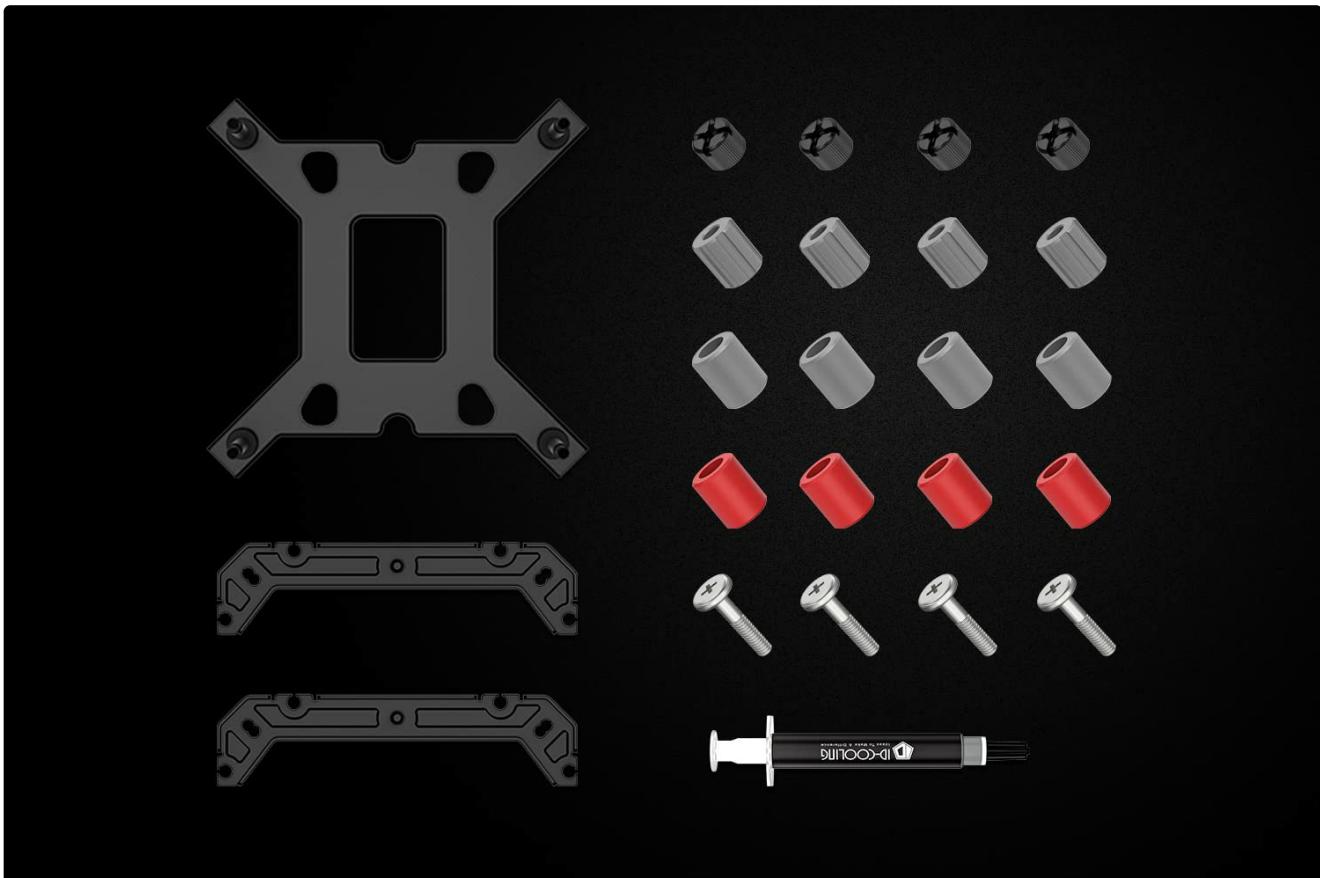
Image: All included mounting hardware and thermal paste for the IS-47-XT cooler.

SETUP AND INSTALLATION

Follow these steps carefully to install your ID-COOLING IS-47-XT CPU cooler. Ensure your system is powered off and unplugged before beginning installation.

1. Prepare the Motherboard

1. Place the appropriate backplate (if required for your socket type) on the rear of the motherboard, aligning the holes with the CPU socket mounting holes.
2. Insert the standoffs through the mounting holes from the front side of the motherboard, securing them to the backplate.

2. Apply Thermal Paste

1. Clean the surface of your CPU and the cooler's copper base with isopropyl alcohol to remove any dust or residue.
2. Apply a small, pea-sized amount of the included thermal paste to the center of the CPU's Integrated Heat Spreader (IHS). Do not spread it; the pressure from the cooler will distribute it evenly.
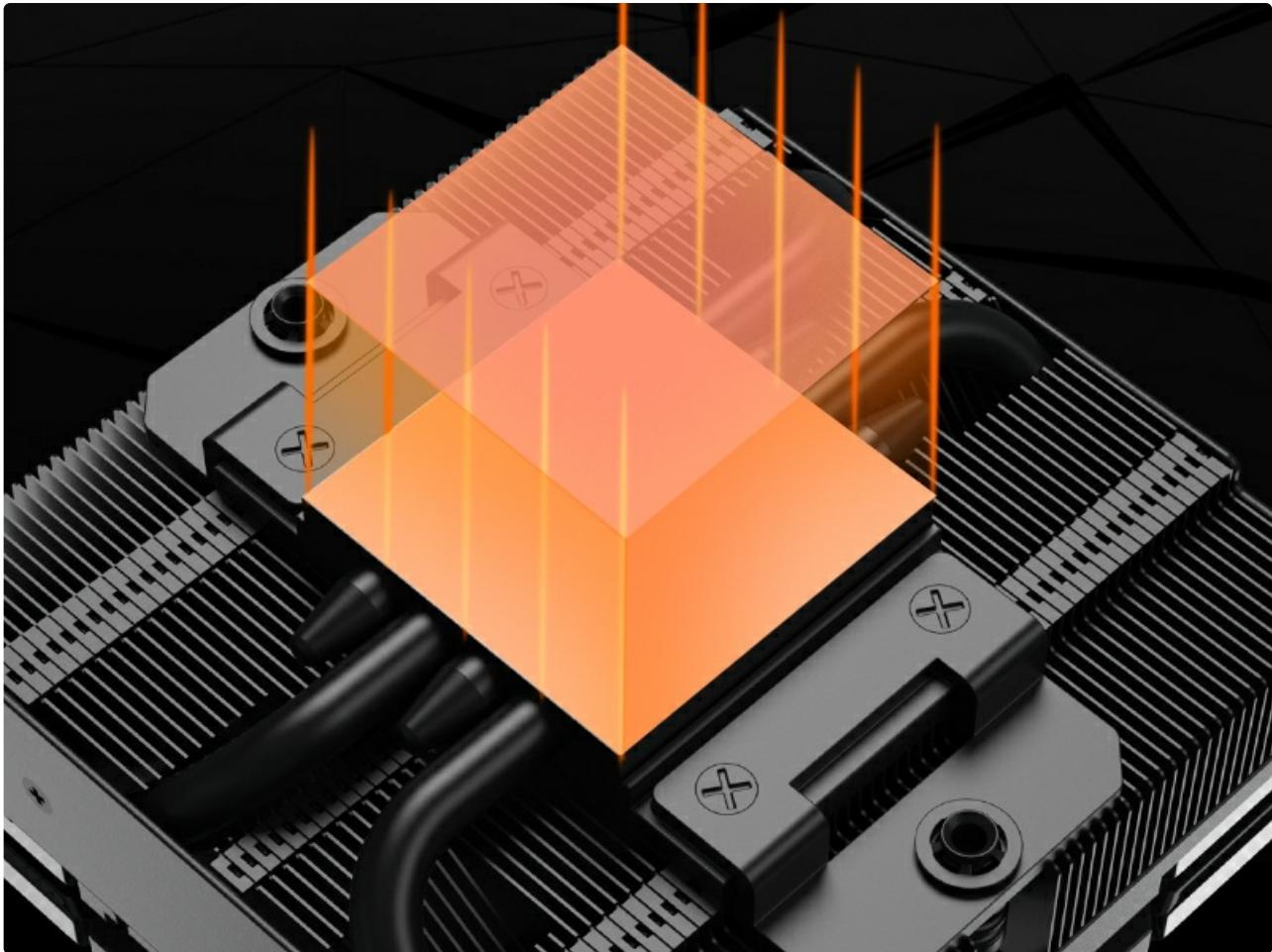
Image: Diagram illustrating the copper base and heat pipes for efficient heat transfer from the CPU.

3. Mount the Cooler

1. Carefully place the IS-47-XT cooler onto the CPU, aligning the mounting holes on the cooler's bracket with the standoffs on the motherboard.

2. Secure the cooler using the provided screws. Tighten them in a diagonal pattern (e.g., top-left, bottom-right, top-right, bottom-left) until snug. Do not overtighten.

3. Connect the 4-pin PWM fan cable from the cooler to the CPU_FAN header on your motherboard.

BEST PERFORMING COOLER AT 47MM HEIGHT

47mm

Image: The IS-47-XT cooler installed on a motherboard, demonstrating its excellent RAM compatibility due to its compact design.

Mounting Orientation

The IS-47-XT cooler can be mounted in two different orientations to optimize airflow within your case, depending on your system's configuration. Consider the direction of your case fans to ensure the cooler's fan is assisting the overall airflow.

LOW-NOISE OPERATION

Image: Illustration showing two possible mounting orientations for the cooler to best fit the system's airflow.

OPERATING INSTRUCTIONS

Once installed, the ID-COOLING IS-47-XT operates automatically to maintain optimal CPU temperatures.

PWM Fan Control

The 92x92x15mm fan is a Pulse Width Modulation (PWM) fan. This means its speed is automatically controlled by your motherboard based on the CPU's temperature. This dynamic control ensures efficient cooling when needed and quiet operation during lighter loads.

Image: Close-up of the fan, highlighting its design for low-noise operation.

Airflow and Performance

The fan is designed to push air down through the heatsink fins, effectively dissipating heat from the copper base and heat pipes. This strong airflow and air pressure ensure that heat is quickly removed from the CPU, maintaining stable operating temperatures.
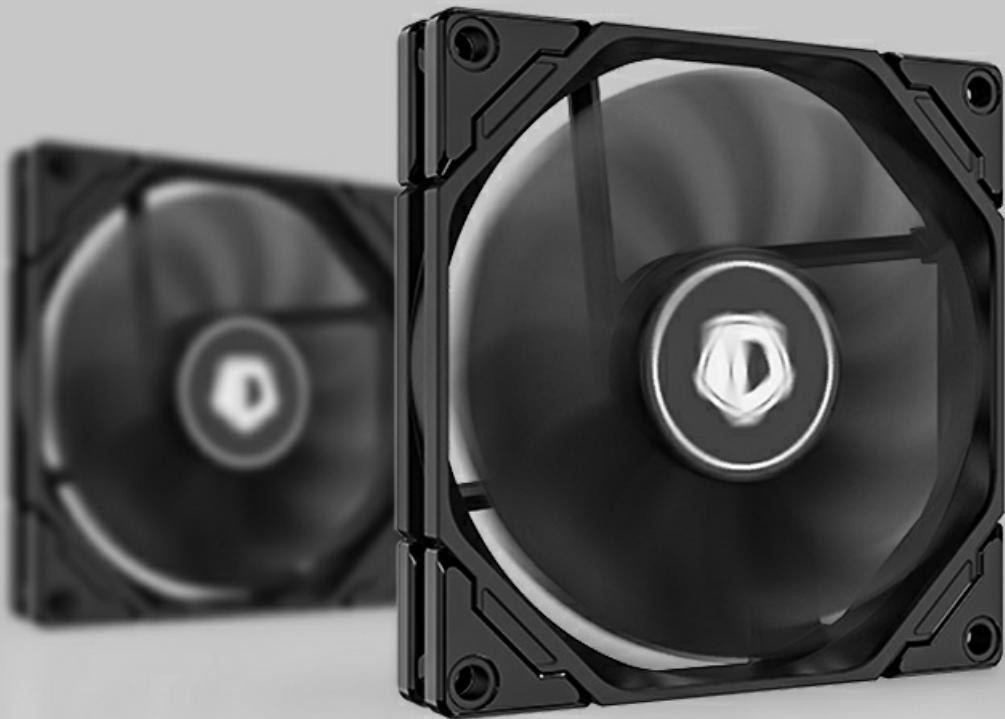
Image: Diagram illustrating the strong airflow and air pressure generated by the fan for effective cooling.

MAINTENANCE

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

Dust Cleaning

- Periodically inspect the heatsink fins and fan blades for dust accumulation.
- Use compressed air to blow dust out of the heatsink fins. Hold the fan blades gently to prevent them from spinning excessively during cleaning, which can damage the fan bearings.
- For stubborn dust, a soft brush or cotton swab can be used carefully.

Thermal Paste Reapplication

While modern thermal pastes have a long lifespan, reapplication may be beneficial after several years or if you notice a significant increase in CPU temperatures. This involves carefully removing the cooler, cleaning off old thermal paste from both the CPU and cooler base, and applying new thermal paste before re-mounting.

TROUBLESHOOTING

If you encounter issues with your ID-COOLING IS-47-XT cooler, refer to the following common problems and solutions.

High CPU Temperatures

- **Check Mounting Pressure:** Ensure the cooler is securely mounted and evenly tightened. Uneven pressure can lead to poor contact with the CPU.
- **Verify Thermal Paste Application:** Confirm that thermal paste was applied correctly and is evenly spread between the CPU and cooler base. Reapply if necessary.
- **Inspect Fan Operation:** Ensure the fan is spinning freely and connected to the CPU_FAN header. Check for any obstructions.
- **Case Airflow:** Poor case ventilation can trap heat. Ensure your PC case has adequate intake and exhaust fans.
- **CPU Power Consumption:** This cooler is designed for CPUs with lower thermal design power (TDP). For optimal performance, it is recommended for CPUs with a TDP of 65W or lower. CPUs with higher power consumption (e.g., 90W or above) may experience higher temperatures, especially under heavy load.

Excessive Fan Noise

- **Dust Accumulation:** Clean the fan blades and heatsink fins as described in the Maintenance section.
- **Fan Speed Settings:** Check your motherboard's BIOS/UEFI settings for fan control. Adjust the fan curve to a quieter profile if temperatures allow.
- **Obstructions:** Ensure no cables or other components are touching the fan blades.

SPECIFICATIONS

Below are the detailed technical specifications for the ID-COOLING IS-47-XT CPU Cooler:

Feature	Specification
Product Dimensions	3.7 x 3.7 x 1.85 inches (94 x 94 x 47mm)
Weight	1.28 Pounds (approx. 580g)
Material	Copper Base, Aluminum Fins
Heat Pipes	4
Fan Dimensions	92 x 92 x 15 mm
Fan Speed	800-2800 RPM (PWM controlled)
Max. Air Flow	46 CFM
Noise Level	≤35.2 dB(A)
Power Connector	4-Pin PWM
Rated Voltage	12 VDC
Rated Wattage	2.16 watts
Compatible Intel Sockets	LGA1700/1200/1151/1150/1155/1156

Feature	Specification
Compatible AMD Sockets	AM5/AM4 (requires extra brackets)

WARRANTY AND SUPPORT

For warranty information and technical support, please contact ID-COOLING directly or refer to their official website. Keep your proof of purchase for any warranty claims.

You can visit the official ID-COOLING store for more information and contact details: ID-COOLING Store

Related Documents

	ID-COOLING IS-XT-A1-X3A4D06-V2 CPU Cooler Installation Guide Comprehensive installation guide for the ID-COOLING IS-XT-A1-X3A4D06-V2 CPU cooler, covering component lists, socket compatibility for Intel LGA1700, LGA1200/115X, and AMD AM4/AM5, step-by-step assembly instructions, and fan connection. Includes support contact information.
	ID-COOLING IS-XT Installation Guide This document provides a comprehensive installation guide for the ID-COOLING IS-XT CPU cooler, covering compatibility with Intel and AMD sockets, fan mounting, and cable connections.
	ID-COOLING XTS-V1 Installation Guide This guide provides step-by-step instructions for installing the ID-COOLING XTS-V1 CPU cooler, covering Intel and AMD platforms.
	ID-COOLING AIO-DASH-V1 Installation Guide Comprehensive installation guide for the ID-COOLING AIO-DASH-V1 CPU cooler, covering compatibility with Intel LGA1700, LGA1200/115X, LGA20XX, and AMD AM4/AM5 sockets. Includes detailed steps and component lists for a successful installation.

Documents - ID-COOLING – IS-47-XT

[ID-COOLING IS-XT-A1-X3A4D06-V2 CPU Cooler Installation Guide](#)

Comprehensive installation guide for the ID-COOLING IS-XT-A1-X3A4D06-V2 CPU cooler, covering component lists, socket compatibility for Intel LGA1700, LGA1200/115X, and AMD AM4/AM5, step-by-step assembly instructions, and fan connection. Includes support contact information.

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