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ID-COOLING FX240 INF

ID-COOLING FX240 INF Liquid CPU Cooler: Installation and User Manual

Model: FX240 INF

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ID-COOLING FX240 INF 240mm Liquid CPU Cooler. Please read this manual thoroughly before installation to ensure proper setup and optimal performance.

The ID-COOLING FX240 INF is an All-In-One (AIO) liquid CPU cooler designed for efficient heat dissipation in gaming and high-performance computing systems. It features a 240mm radiator, two 120mm daisy-chained fans, and an ARGB infinity mirror effect on the pump.

WHAT'S IN THE BOX

Verify that all components are present before beginning installation:

- Radiator with integrated pump and tubing
- Cooling Fans (2x 120mm)
- Mounting Hardware for Intel and AMD sockets
- Thermal Paste
- 7-pin extension cable for fan daisy-chaining

Hassle-Free Installation

Compatible with Intel and AMD sockets.
Intel LGA1851/1700/1200/115X AMD AM5/AM4

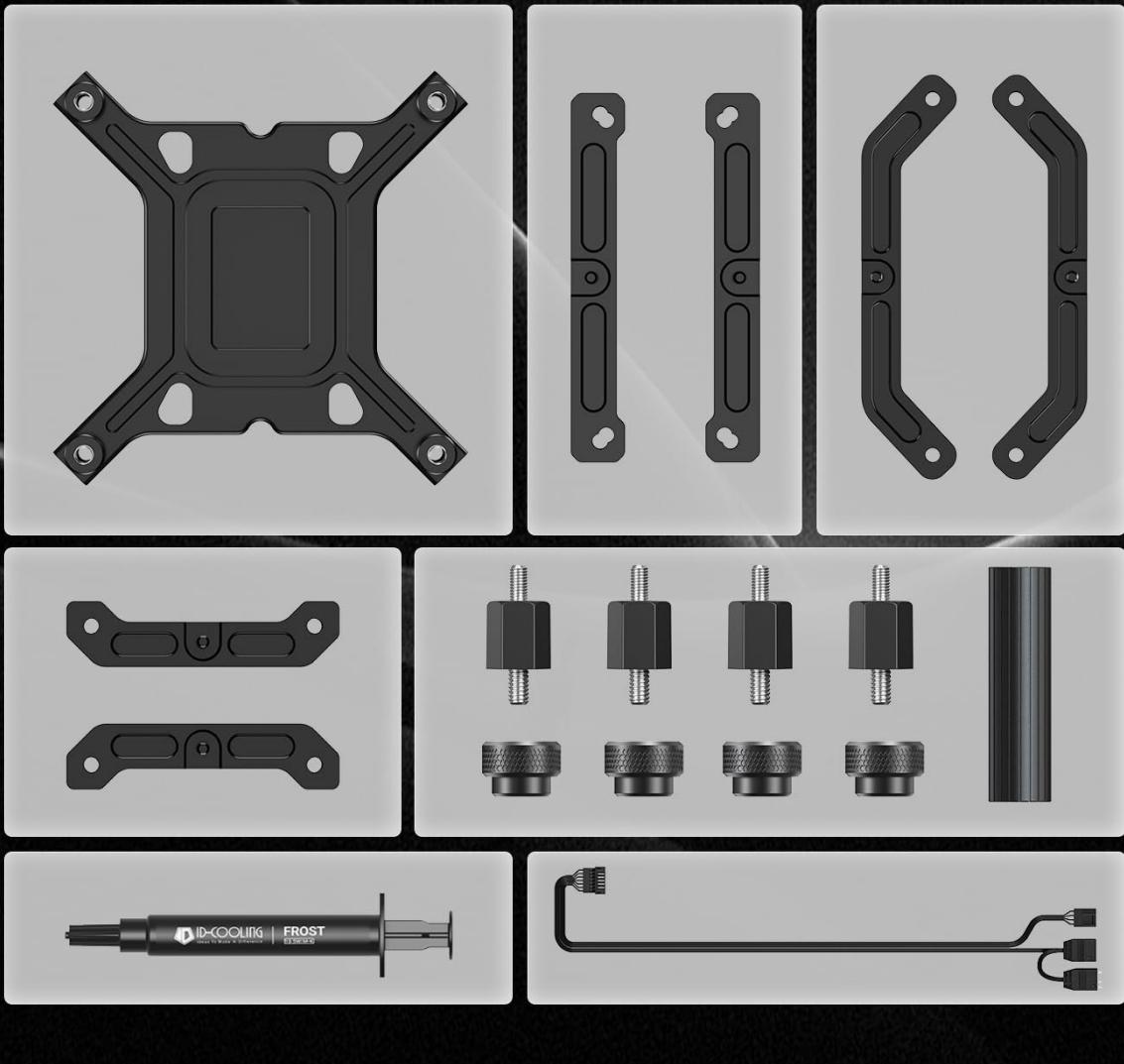


Image: All included mounting hardware and components for the ID-COOLING FX240 INF cooler.

INSTALLATION GUIDE

This section provides step-by-step instructions for installing your ID-COOLING FX240 INF liquid CPU cooler on both Intel and AMD platforms. Ensure your system is powered off and unplugged before proceeding.

General Preparation

1. Unpack all components and verify against the "What's in the Box" section.
2. Ensure your motherboard is compatible with the cooler (Intel LGA1851/1700/1200/115X or AMD AM5/AM4).
3. Clean the CPU surface thoroughly with isopropyl alcohol to remove any old thermal paste.

Intel Socket Installation (LGA1851/1700/1200/115X)

1. **Step 1: Prepare the Intel Backplate.** Move the Intel backplate screws to the corresponding positions for your socket type (LGA1851/1700: pull outward; LGA1200/115X: push inward). Insert the backplate through the back of the motherboard.
2. **Step 2: Install Stud Bolts and Intel Brackets.** Use a socket wrench to tighten the stud bolts onto the

backplate. Ensure the closed surface of the stud bolt faces upward. Secure the Intel brackets with nuts.

3. **Step 3: Apply Thermal Paste.** Clean the CPU surface. Apply a small amount of thermal paste to the center of the CPU. Remove the protective cover and sticker from the bottom of the cold plate.
4. **Step 4: Mount the Cold Plate.** Carefully place the cold plate onto the CPU, aligning it with the stud bolts. Tighten the mounting screws on each side evenly until secure.

AMD Socket Installation (AM5/AM4)

1. **Step 1: Remove Retention Frame.** Remove the original AMD plastic retention frame from the motherboard, but keep the stock backplate.
2. **Step 2: Install Stud Bolts and AMD Brackets.** Use a socket wrench to tighten the stud bolts onto the stock backplate. Ensure the closed surface of the stud bolt faces upward. Attach the appropriate AMD brackets (longer or shorter depending on your preference/clearance) and fix them with nuts.
3. **Step 3: Apply Thermal Paste.** Clean the CPU surface. Apply a small amount of thermal paste to the center of the CPU. Remove the protective cover and sticker from the bottom of the cold plate.
4. **Step 4: Mount the Cold Plate.** Carefully place the cold plate onto the CPU, aligning it with the stud bolts. Tighten the mounting screws on each side evenly until secure.

Wiring Instructions

1. **Pump Connection:** Plug the 4-pin connector from the pump into the "AIO_PUMP" or "CPU_OPT" header on your motherboard. Plug the 3-pin ARGB connector into the "5V D G" header on your motherboard for lighting control.
2. **Fan Connection:** The two 120mm fans are daisy-chained. Connect the 4-pin fan connector into the "CPU_FAN" header on your motherboard. Connect the 3-pin ARGB connector from the fans into the "5V D G" header on your motherboard.

Installation Video Guide

For a visual guide on the installation process, please refer to the official installation video below:

Your browser does not support the video tag.

Video: Detailed installation guide for the ID-COOLING FX INF Series liquid CPU coolers, covering both Intel and AMD platforms.

OPERATING INSTRUCTIONS

Once installed, the ID-COOLING FX240 INF cooler operates automatically to maintain optimal CPU temperatures. The pump and fans are controlled via your motherboard's fan headers.

Fan and Pump Control

- The pump operates at approximately 2900 RPM.
- The 120mm cooling fans are designed for quiet operation, with a maximum noise level of 27.2 dB(A).
- You can adjust fan curves and pump speed settings through your motherboard's BIOS/UEFI or dedicated software to optimize for performance or acoustics.

ARGB Lighting Control

The infinity mirror effect on the pump and the fans feature Addressable RGB (ARGB) lighting. This can be controlled via your motherboard's ARGB software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, Gigabyte RGB Fusion, ASRock Polychrome Sync) by connecting the 3-pin ARGB connectors to the appropriate 5V D G headers.

Infinity Mirror Decorated

The appeal of an infinity mirror with addressable RGB lighting creates an illusion of infinite depth and endless reflections.



Image: The pump head showcasing the ARGB infinity mirror effect.

2×120mm Powerful Fans

Two 120mm cooling fans deliver stable performance output for extreme cooling.



Image: The two 120mm cooling fans with ARGB lighting.

The pump cap is 360° rotatable, allowing for multi-angle adjustments without repositioning the cold plate, ensuring the logo is always oriented correctly.

360° Rotatable Pump Cap

Allow multi-angle adjustments in any direction without having to reposition the cold plate.



Image: Demonstrating the 360° rotatable pump cap for flexible orientation.

MAINTENANCE

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

- Dust Cleaning:** Periodically clean the radiator fins and fan blades using compressed air to remove dust buildup. Dust can impede airflow and reduce cooling efficiency.
- Tubing and Connections:** Inspect the tubing and connections for any signs of leaks or damage. Ensure all connections are secure.
- Thermal Paste:** While not frequently required, if you remove the cold plate for any reason, it is recommended to clean off old thermal paste and apply new thermal paste before reinstallation.

TROUBLESHOOTING

If you encounter issues with your ID-COOLING FX240 INF cooler, refer to the following common troubleshooting steps:

- **No Power/Lights:**

- Check all power connections to the pump and fans.
- Ensure the 4-pin pump connector is securely plugged into "AIO_PUMP" or "CPU_OPT" on the motherboard.
- Verify the 3-pin ARGB connectors are correctly plugged into the 5V D G headers.
- Check your motherboard's BIOS/UEFI settings to ensure fan and pump headers are enabled and configured correctly.

- **High CPU Temperatures:**

- Confirm the cold plate is securely mounted to the CPU and making good contact.
- Ensure sufficient thermal paste was applied and spread evenly.
- Check if the fans are spinning correctly and in the right direction (pushing air through the radiator).
- Clean any dust buildup on the radiator fins.
- Verify pump operation; listen for pump noise or check RPM in monitoring software.

- **Unusual Noise:**

- **Gurgling/Bubbling:** This can sometimes occur during initial startup as air settles in the loop. It should subside. If persistent, ensure the radiator is mounted higher than the pump.
- **Fan Noise:** Check for obstructions in the fan blades. Adjust fan curves in BIOS/UEFI to reduce speed if noise is excessive and temperatures allow.
- **Pump Noise:** Ensure the pump is running at its intended speed. If the noise is a persistent grinding or rattling, contact customer support.

SPECIFICATIONS

Feature	Specification
Product Dimensions	4.72" L x 0.98" W x 4.72" H
Brand	ID-COOLING
Power Connector Type	4-Pin
Wattage (TDP)	300 watts
Cooling Method	Water
Compatible Devices	Desktop
Noise Level (Max)	27.2 Decibels
Material	Acrylonitrile Butadiene Styrene, Aluminum, Plastic
Maximum Rotational Speed (Pump)	2900 RPM
Air Flow Capacity	58 Cubic Feet Per Minute
Manufacturer	ID-COOLING
Item Weight	4.18 pounds
CPU Socket Compatibility	Intel LGA1851/1700/1200/1151/1150/1155/1156, AMD AM5/AM4

WARRANTY AND SUPPORT

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

Official Product Overview Video:

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Video: An overview of the ID-COOLING FX240 INF liquid CPU cooler, highlighting its features and design.