ID-COOLING FX240-PRO

ID-COOLING FX240 PRO Liquid CPU Cooler User Manual

1. INTRODUCTION

The ID-COOLING FX240 PRO is a high-performance 240mm All-in-One (AIO) liquid CPU cooler designed for gaming and high-performance computing systems. It features a powerful pump, two 120mm high-efficient fans, and a sleek all-black design with a special CD pattern pump header. This cooler is engineered to provide efficient heat dissipation for your CPU, ensuring stable and reliable system operation.

This manual provides detailed instructions for the installation, operation, and maintenance of your ID-COOLING FX240 PRO liquid CPU cooler. Please read this manual thoroughly before installation to ensure proper setup and optimal performance.

Figure 1.1: ID-COOLING FX240 PRO Liquid CPU Cooler Overview

2. What's in the Box

Before proceeding with the installation, please verify that all components are present in the package:

- Radiator with pre-attached cooling fans
- Mounting hardware for Intel and AMD sockets
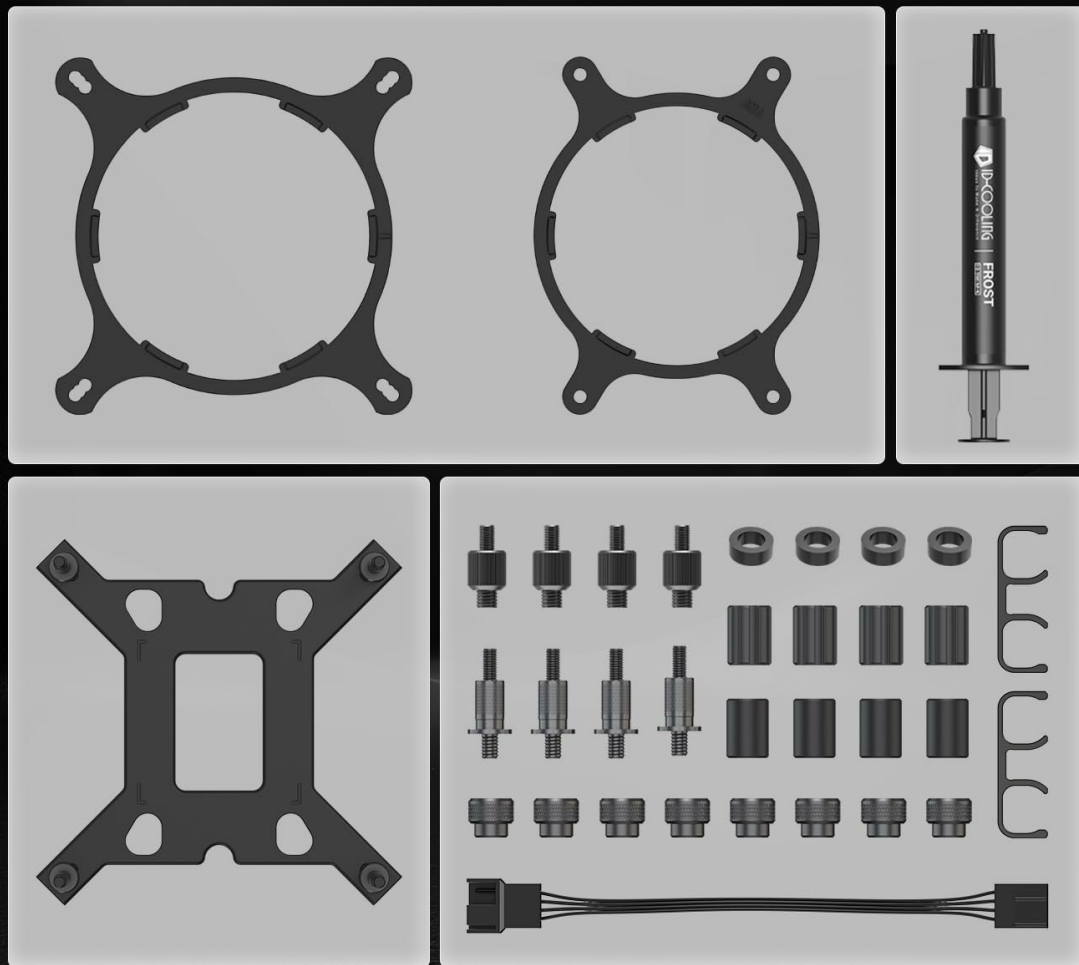- Thermal paste

Figure 2.1: Included Mounting Hardware and Accessories

3. SPECIFICATIONS

Key technical specifications for the ID-COOLING FX240 PRO Liquid CPU Cooler:

Feature	Specification
Model Number	FX240-PRO
Product Dimensions	15.63"L x 1.06"W x 4.72"H (Radiator)
TDP Support	Up to 300W
Pump Speed	2900RPM ±10%
Fan Size	2 x 120mm
Max. Air Flow	82.5CFM
Max. Air Pressure	2.55mmH2O

Feature	Specification
Noise Level	35.2 dB(A)
Power Connector Type	4-Pin
Compatible Sockets	Intel LGA1851/1700/1200/1151/1150/1155/1156, AMD AM4/AM5
Materials	Aluminum, Metal, Plastic, Rubber

4. SETUP AND INSTALLATION

Follow these general steps for installing your ID-COOLING FX240 PRO liquid CPU cooler. Refer to the detailed diagrams provided with your product for specific socket installation procedures.

4.1 Pre-Installation Checklist

- Ensure your motherboard is compatible with the cooler's mounting brackets.
- Gather necessary tools (screwdriver, cleaning cloth).
- Prepare your CPU by cleaning any old thermal paste if applicable.

4.2 Installation Steps

1. **Prepare the Backplate:** Depending on your CPU socket (Intel or AMD), assemble the appropriate backplate and standoffs.
2. **Install Mounting Brackets:** Attach the correct mounting brackets to the pump head.
3. **Apply Thermal Paste:** Apply a small, pea-sized amount of thermal paste to the center of your CPU's integrated heat spreader (IHS).
4. **Mount the Pump Head:** Carefully place the pump head onto the CPU, aligning the screws with the standoffs. Tighten the screws in a diagonal pattern until secure.
5. **Mount the Radiator:** Install the radiator and fans into your PC case. The fans are daisy-chained for simpler cable management.
6. **Connect Cables:** Connect the pump power cable to the CPU_FAN or AIO_PUMP header on your motherboard. Connect the fan cables to an available fan header or a fan controller.
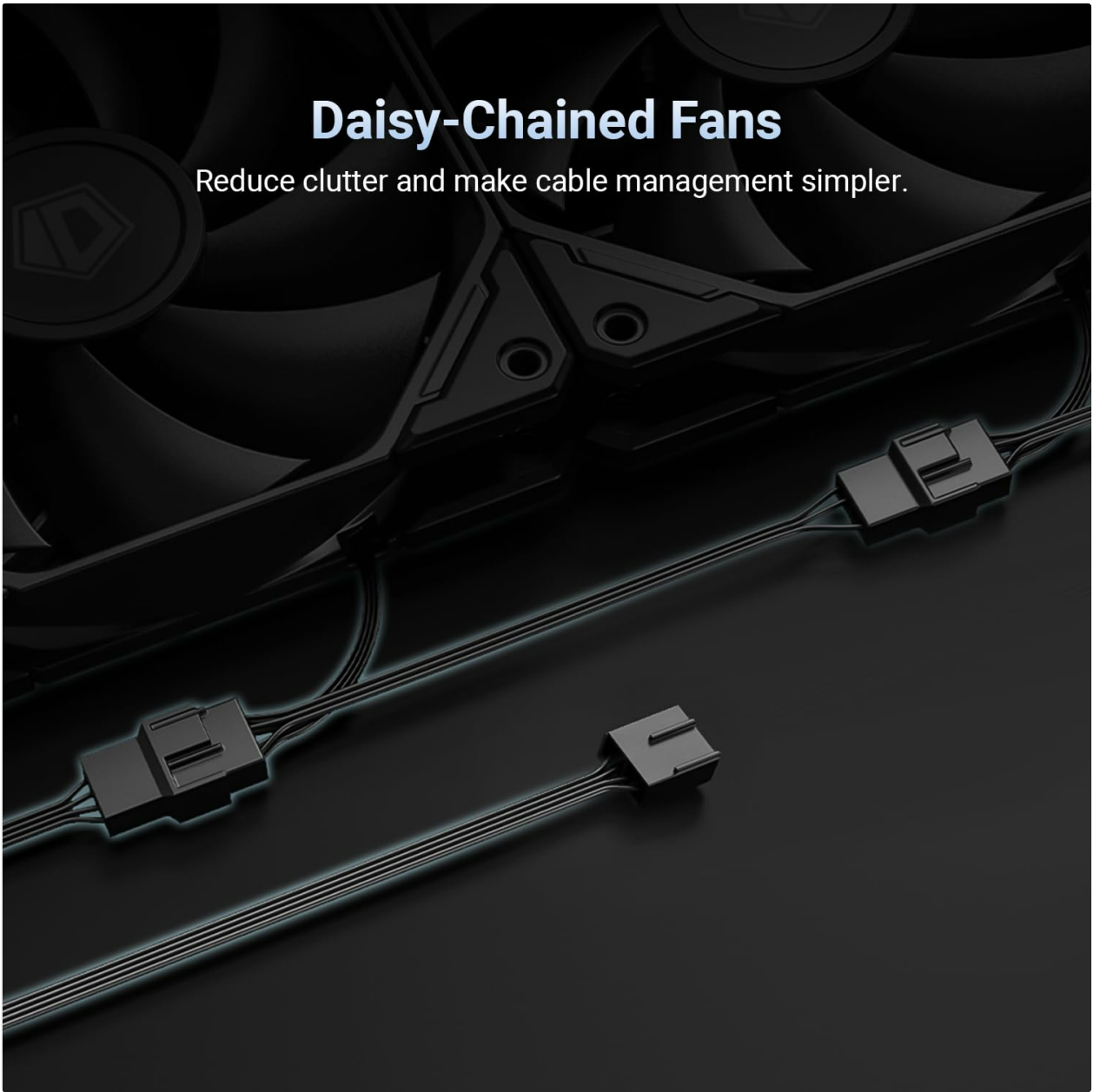
Figure 4.1: Daisy-Chained Fan Connections

Figure 4.2: Pump Head Installation

5. OPERATING THE COOLER

Once installed, the ID-COOLING FX240 PRO operates automatically, regulating pump and fan speeds based on CPU temperature. For optimal performance, ensure your motherboard's BIOS/UEFI settings are configured to allow dynamic fan and pump control.

5.1 Pump Operation

The integrated pump runs at a high speed of 2900RPM ±10% to efficiently circulate the coolant and dissipate heat from the CPU. Its design ensures quiet operation while maintaining high thermal transfer capabilities.

Figure 5.1: Internal Structure and Performance of the V7 Water Pump

5.2 Fan Performance

The two 120mm fans are designed for high static pressure and airflow, pushing air through the radiator fins effectively. They operate within a noise level of 35.2 dB(A) at maximum speed, providing a balance between cooling performance and acoustic comfort.

- **Max. Air Flow:** 82.5 CFM
- **Max. Air Pressure:** 2.55 mmH2O

Figure 5.2: Fan Performance Metrics

6. MAINTENANCE

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

- **Dust Cleaning:** Periodically clean dust from the radiator fins and fan blades using compressed air or a soft brush. Accumulated dust can impede airflow and reduce cooling efficiency.
- **Check Connections:** Ensure all cables (pump power, fan power) are securely connected to the motherboard.
- **Inspect Tubing:** Visually inspect the tubing for any signs of kinks, leaks, or damage.
- **Thermal Paste:** While not frequently required, consider reapplying thermal paste if you notice a significant increase in CPU temperatures over time, especially after disassembling the pump head.

7. TROUBLESHOOTING

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

7.1 Excessive Noise

- **Fan Noise:** Check if fan blades are obstructed or if screws are loose. Ensure fans are properly seated. Adjust fan speed settings in BIOS/UEFI if noise is excessive at idle.
- **Pump Noise:** A gurgling sound might indicate air bubbles in the loop. Orient the radiator higher than the pump head if possible, or gently tilt your PC case to help air bubbles settle in the radiator.

7.2 Poor Cooling Performance

- **Thermal Paste:** Ensure thermal paste was applied correctly and evenly. Reapply if necessary.
- **Pump Connection:** Verify the pump is receiving power and is running. Check the pump's RPM in BIOS or monitoring software.
- **Fan Operation:** Confirm all fans are spinning correctly. Check fan connections and ensure they are not obstructed.
- **Radiator Airflow:** Ensure your case has adequate airflow and that the radiator is not blocked by cables or other components. Clean any dust buildup on the radiator fins.
- **Mounting Pressure:** Ensure the pump head is securely mounted to the CPU with adequate and even pressure.

7.3 Fans Not Spinning

- **Power Connection:** Check if the fan cables are properly connected to the motherboard fan headers or fan controller.
- **BIOS Settings:** Ensure fan headers are enabled in BIOS and not set to a very low RPM threshold that prevents them from spinning at low temperatures.
- **Individual Fan Failure:** If only one fan is not spinning, it might indicate a faulty fan. Contact support if necessary.

8. WARRANTY AND SUPPORT

ID-COOLING products are manufactured to high-quality standards. For warranty information, please refer to the warranty card included with your product or visit the official ID-COOLING website. If you require technical assistance or have questions not covered in this manual, please contact ID-COOLING customer support through their official channels.

No official product videos from the seller were found that meet the specified criteria for inclusion in this manual.

Related Documents - FX240-PRO

	[ID-COOLING AIO CPU Cooler Installation Manual - Guide for Intel & AMD](#) Comprehensive installation guide for ID-COOLING All-In-One (AIO) CPU coolers. Covers component lists, mounting instructions for Intel LGA 1700/1200/115X/2066/2011 and AMD AM4/AM5 sockets, and RGB connection.
	[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 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.
	ID-COOLING FROSTFLOW X 280 Installation Manual This document provides a comprehensive installation manual for the ID-COOLING FROSTFLOW X 280 CPU Water Cooler, detailing component lists and step-by-step installation guides for Intel and AMD platforms.
	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 IS Series Installation Guide This guide provides step-by-step instructions for installing the ID-COOLING IS Series CPU cooler for Intel LGA1700/1200/115X and AMD AM4 sockets. It includes a components list and troubleshooting tips.