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ID-COOLING AURAFLOW X 240

ID-COOLING AURAFLOW X 240 CPU Water Cooler Instruction Manual

Model: AURAFLOW X 240

1. Product Overview

The ID-COOLING AURAFLOW X 240 is an all-in-one (AIO) liquid CPU cooler designed to provide efficient thermal management for your processor. Featuring a 240mm radiator and two 120mm RGB fans, this cooler is compatible with a wide range of Intel and AMD sockets, ensuring broad applicability for various PC builds. The integrated 12V RGB lighting system allows for synchronization with compatible motherboard software, enhancing the aesthetic appeal of your system.

Image: The ID-COOLING AURAFLOW X 240 SNOW CPU Water Cooler, showcasing its dual fans and pump unit.

2. Compatibility

This cooler supports the following CPU sockets:

- **Intel:** LGA1700, LGA1200, LGA115X (1150, 1151, 1155, 1156), LGA2066
- **AMD:** AM4, AM5

3. Package Contents

Please ensure all components are present before beginning installation:

- 240mm Radiator with Integrated Pump/Waterblock
- 2 x 120mm RGB Fans
- Intel Backplate
- AMD Backplate (retains stock AM4/AM5 backplate)
- Intel Mounting Brackets & Screws
- AMD Mounting Brackets & Screws
- Intel Standoffs (Blue for LGA1700, Black for LGA115X/1200)
- AMD Standoffs (Red)
- Thermal Compound
- Fan PWM Splitter Cable
- ARGB Lighting Cables
- User Manual

4. Installation Guide

4.1 General Preparation

- Ensure your motherboard is removed from the PC case for easier installation.
- Remove any existing CPU cooler and clean the CPU surface thoroughly.
- Peel off the protective sticker from the cold plate of the waterblock before mounting.

4.2 Intel LGA1700 Installation

1. **Install Intel Backplate:** Place the Intel backplate from the back side of the motherboard. Ensure LGA1700 uses the outer holes on the backplate.

Image: Installing the Intel backplate from the rear of the motherboard, aligning it with the CPU socket holes.

2. **Install Standoffs:** Install four blue LGA1700 standoffs onto the backplate screws from the front side of the motherboard.

Image: Blue standoffs being screwed onto the backplate posts from the front of the motherboard.

3. **Apply Thermal Compound:** Apply a small amount of thermal compound to the center of the CPU's Integrated Heat Spreader (IHS).

Image: Thermal paste being applied to the CPU surface in a pattern to ensure even spread.

4. **Mount Waterblock:** Align the waterblock with the standoffs and place it onto the CPU. Secure it with the four included nuts, tightening them in a cross pattern to ensure even pressure.

Image: The waterblock being secured onto the CPU with four nuts, applying even mounting pressure.

4.3 AMD AM4/AM5 Installation

1. **Remove Stock Brackets:** Remove the original AMD plastic retention frame from the motherboard.**Keep the stock AMD backplate.**

Image: Screws being removed to detach the stock AMD CPU retention brackets from the motherboard.

2. **Install Standoffs:** Install four red AMD standoffs onto the stock AMD backplate screws from the front side of the motherboard.

Image: Red standoffs being screwed onto the existing AMD backplate posts on the motherboard.

3. **Apply Thermal Compound:** Apply a small amount of thermal compound to the center of the CPU's Integrated Heat Spreader (IHS).
4. **Mount Waterblock:** Align the waterblock with the standoffs and place it onto the CPU. Secure it with the four included nuts, tightening them in a cross pattern to ensure even pressure.

4.4 Fan and Radiator Installation

1. Attach the two 120mm RGB fans to the radiator using the provided screws. Ensure the fan airflow direction is appropriate for your case's cooling setup (e.g., intake or exhaust).
2. Mount the assembled radiator and fan unit to your PC case. Typically, this is done at the top or front of the case. Use the appropriate screws for mounting the radiator to the case.

4.5 Wiring Instructions

1. **Fan Connection:** Connect the 4-pin PWM headers from both fans to the included fan PWM splitter cable. Then, connect the splitter cable to the CPU_FAN header on your motherboard.

2. **Pump Connection:** Connect the 4-pin PWM header from the waterblock pump to the AIO_PUMP or CPU_OPT header on your motherboard.
3. **ARGB Lighting Connection:** Connect the 3-pin ARGB headers from both fans to the included ARGB splitter cable. Then, connect the splitter cable to a +5V ARGB 3-pin lighting socket on your motherboard. This allows for synchronization with motherboard RGB software.

Image: Illustration of connecting fan PWM headers to a splitter and ARGB headers to another splitter, then to the motherboard.

4.6 Installation Videos

For visual guidance, please refer to the following installation videos:

Universal AIO Cooler Installation Guide

Text Description: This video provides a comprehensive installation guide for universal AIO coolers, including the AURAFLOW, ZOOMFLOW, FROSTFLOW, and PINKFLOW series. It covers step-by-step procedures for mounting the cooler on various CPU sockets.

ID-COOLING FX INF Series Installation Guide

Text Description: This video demonstrates the installation process for the ID-COOLING FX INF Series, which shares similar mounting mechanisms with the AURAFLOW X 240. It offers detailed visual instructions for each step.

ID-COOLING Frostflow X 240 Installation Guide

Text Description: This video showcases the installation of the ID-COOLING Frostflow X 240, a similar 240mm AIO cooler from the same brand. The steps are largely applicable to the AURAFLOW X 240 model.

5. Operating Instructions

5.1 Fan Speed Control (PWM)

The 120mm fans are Pulse Width Modulation (PWM) controlled, allowing your motherboard to dynamically adjust fan speeds based on CPU temperature. This optimizes cooling performance while minimizing noise. Ensure the fan splitter is connected to the CPU_FAN header for proper control.

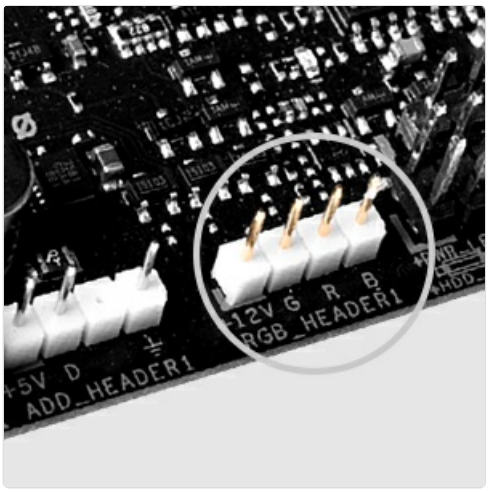

Image: A close-up of the fan, highlighting its PWM control capability for precise speed adjustments.

5.2 RGB Lighting Control

The 12V RGB lighting on the fans and pump can be controlled via your motherboard's compatible RGB software (e.g., ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync, ASRock Polychrome Sync). Connect the 3-pin ARGB cable to the appropriate header on your motherboard to enable software control and customize lighting effects.

Image: The pump head displaying various RGB color options, indicating customizable lighting.

6. Maintenance

- **Dust Cleaning:** Regularly clean dust from the radiator fins and fan blades using compressed air. Ensure the fans are not spinning during cleaning to prevent damage.
- **Coolant Check:** While AIO coolers are generally maintenance-free regarding coolant, some models allow for refilling. If your cooler features a refill port (check product documentation), you may top off the coolant if necessary over its lifespan.
- **Tube Inspection:** Periodically check the tubing for any signs of kinks, leaks, or damage.

7. Troubleshooting

- **High CPU Temperatures:**
  - Ensure the waterblock is securely mounted with even pressure on the CPU.
  - Verify that thermal paste was applied correctly and adequately.

- Check if pump and fan cables are properly connected to the motherboard headers (AIO_PUMP/CPU_OPT and CPU_FAN).
- Confirm fans are spinning and radiator fins are free of dust.

- **RGB Lighting Not Working:**
  - Ensure the 3-pin ARGB cable is correctly connected to a +5V ARGB header on the motherboard.
  - Check your motherboard's RGB software for lighting control and ensure it's up to date.
  - Verify that the ARGB splitter cable is functioning correctly.
- **Unusual Noise from Pump/Fans:**
  - Ensure all fan screws are tightened to prevent vibration.
  - Check for any cables obstructing fan blades.
  - If a gurgling sound is heard, it might indicate air bubbles in the loop. Gently tilt your PC case to help move air bubbles to the radiator.

8. Specifications

Feature	Value
Brand	ID-COOLING
Model Number	AURAFLOW X 240 SNOW
Cooling Method	Liquid
Radiator Size	240mm
Fan Size	120mm (x2)
Maximum Rotational Speed	1200 RPM
Air Flow Capacity	74.5 Cubic Feet Per Minute (CFM)
Noise Level	35.2 Decibels
Power Connector Type	4-Pin (PWM)
Voltage	12 Volts
Material	Polycarbonate
Compatible Devices	Desktop

9. Warranty and Support

ID-COOLING products are manufactured to the highest quality standards. For warranty information, technical support, or service inquiries, please refer to the official ID-COOLING website or contact your local distributor. Keep your proof of purchase for warranty claims.