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ID-COOLING XF-12025-ARGB-TRIO

ID-COOLING XF-12025-ARGB-TRIO 120mm Case Fan ARGB 3 Pack User Manual

Model: XF-12025-ARGB-TRIO

1. Introduction

The ID-COOLING XF-12025-ARGB-TRIO is a 3-pack of 120mm case fans designed to provide efficient cooling and vibrant Addressable RGB (ARGB) lighting for your computer system. These fans feature Pulse Width Modulation (PWM) control for dynamic speed adjustment, ensuring optimal airflow and minimized noise. The ARGB lighting can be synchronized with compatible motherboards, allowing for a unified lighting experience.

Key features include:

- **PWM Fan Control:** Dynamic speed adjustment from 700 RPM to 1,500 RPM for balanced performance.
- **Addressable RGB Lighting:** Customizable lighting effects to match your PC build.
- **Motherboard Sync:** Compatible with 5V 3-PIN ARGB headers for synchronized lighting (e.g., Asus Aura, Gigabyte RGB Fusion, MSI Mystic Lighting, AsRock Polychrome).
- **Low-Noise Operation:** Engineered for quiet performance without sacrificing cooling efficiency.
- **High Airflow:** Designed to maximize air movement within your PC chassis.

2. Safety Information

Please read and understand the following safety precautions before installation and operation:

- Ensure your computer system is powered off and unplugged from the wall outlet before installing or handling any internal components.
- Avoid touching the fan blades while the fan is operating.
- Do not expose the fans or cables to moisture or extreme temperatures.
- Handle components with care to prevent damage to pins or connectors.
- If you are unsure about any installation steps, consult a qualified technician.

3. Package Contents

Verify that all items are present in your package:

- 3 x ID-COOLING XF-12025-ARGB-TRIO 120mm Case Fans
- Mounting Screws (typically 12 screws for 3 fans)
- PWM Fan Cables (pre-attached or separate)
- ARGB 5V 3-PIN Cables (pre-attached or separate)

Image: The ID-COOLING XF-12025-ARGB-TRIO 3-pack of fans.

4. Setup and Installation

Follow these steps to install your ID-COOLING case fans:

1. **Prepare Your System:** Power off your computer and unplug it from the power outlet. Open your PC case to access the fan mounting locations.
2. **Identify Mounting Locations:** Determine where you want to install the fans (e.g., front, top, rear, bottom of the case). Ensure there is sufficient space and proper airflow direction.
3. **Mount the Fans:** Position each fan in the desired location. Use the included mounting screws to secure the fans to

the case. Ensure the fan is oriented correctly for intake or exhaust airflow as per your system's cooling design.

Image: Fans installed within a PC case.

4. **Connect PWM Cables:** Each fan has a 4-pin PWM cable. Connect these cables to the available 4-pin fan headers on your motherboard. Refer to your motherboard manual for header locations (e.g., CPU_FAN, SYS_FAN, CHA_FAN). If you have multiple fans and limited headers, you may need a fan hub (not included).
5. **Connect ARGB Cables:** Each fan also has a 5V 3-PIN Addressable RGB cable. Connect these cables to the 5V 3-PIN ARGB headers on your motherboard. **Do not connect to 12V 4-PIN RGB headers, as this will damage the LEDs.** Refer to your motherboard manual for ARGB header locations (often labeled as ADD_HEADER, JRAINBOW, or similar). If you have multiple fans, you may daisy-chain them or use an ARGB hub (not included).

Image: Motherboard 5V 3-PIN ARGB header connection.

6. **Cable Management:** Route the fan and ARGB cables neatly to improve airflow and aesthetics within your PC case. Use cable ties or Velcro straps if necessary.
7. **Close Case and Power On:** Once all connections are secure and cables are managed, close your PC case. Reconnect the power cable and power on your computer.

5. Operating Instructions

Your ID-COOLING fans are designed for easy operation once installed:

5.1 PWM Fan Speed Control

The fans utilize PWM technology, allowing your motherboard to dynamically adjust their speed based on system temperature. This ensures efficient cooling when needed and quiet operation during lighter loads.

- **Automatic Control:** By default, your motherboard's BIOS/UEFI or fan control software will manage fan speeds automatically within the 700-1,500 RPM range.
- **Manual Adjustment:** You can typically adjust fan curves and set custom speed profiles through your motherboard's

BIOS/UEFI settings or dedicated software (e.g., ASUS Fan Xpert, Gigabyte SIV, MSI Dragon Center).

Image: Illustration of PWM fan speed control.

5.2 Addressable RGB Lighting Control

The ARGB lighting is controlled via your motherboard's ARGB software. This allows for a wide range of customizable colors, effects, and synchronization with other ARGB components.

- **Compatible Software:**
  - ASUS Aura Sync
  - Gigabyte RGB Fusion
  - MSI Mystic Light Sync
  - AsRock Polychrome Sync
- Launch the respective software on your operating system to customize lighting modes, colors, brightness, and synchronize effects across all compatible devices.

5.3 Airflow and Noise

These fans are designed for both effective airflow and low noise levels. The fan blades and frame are engineered to minimize operational sound while moving a significant volume of air.

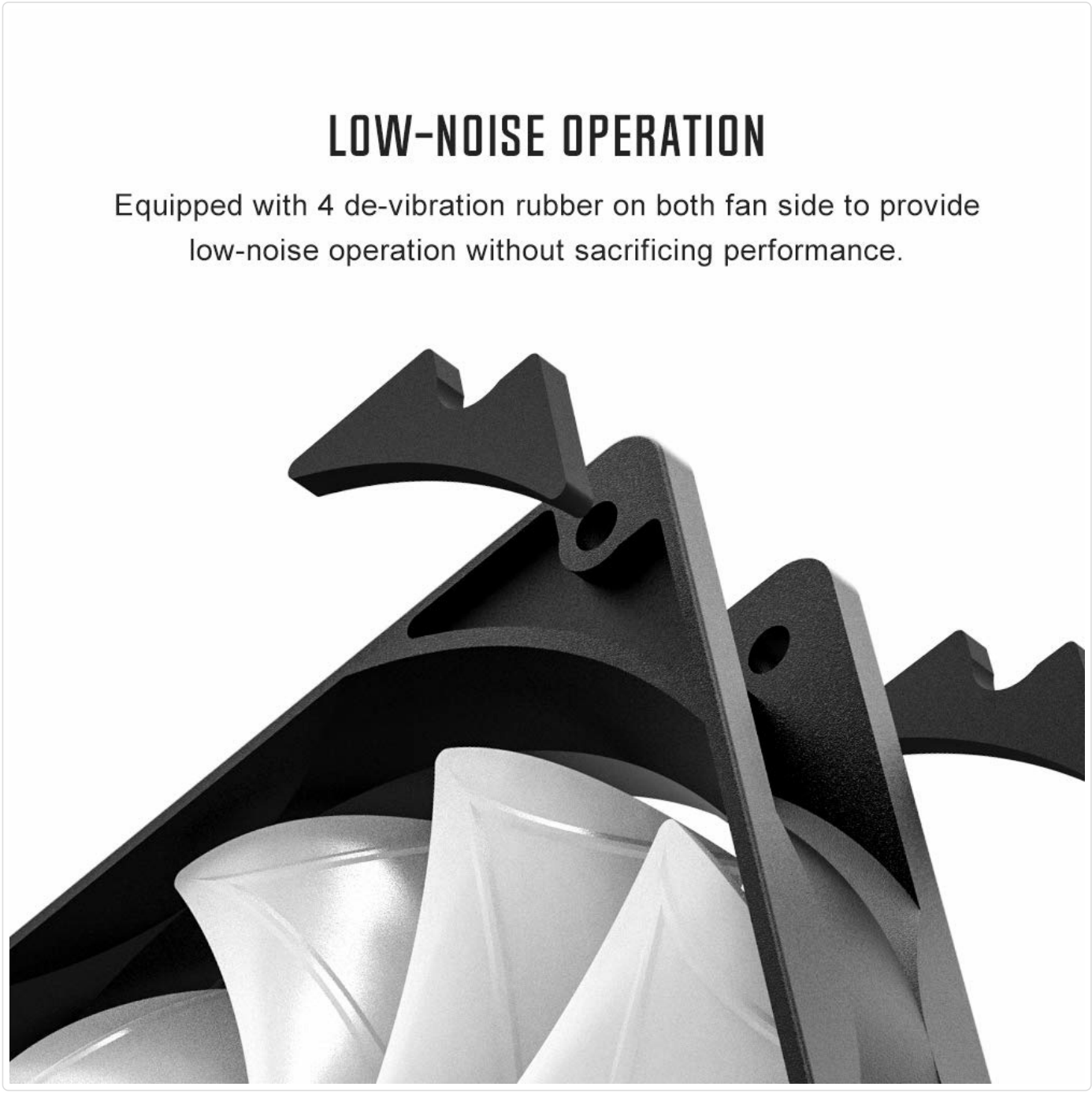

Image: Low-noise operation features.

Image: Fan airflow direction illustration.

6. Maintenance

To ensure optimal performance and longevity of your fans, periodic maintenance is recommended:

- **Dust Removal:** Over time, dust can accumulate on fan blades and within the fan housing, reducing cooling efficiency and potentially increasing noise. Regularly (e.g., every 3-6 months) power off your PC, unplug it, and use compressed air to gently blow dust off the fan blades and heatsinks.
- **Inspection:** Periodically check fan cables for any signs of wear or damage. Ensure all connections remain secure.

7. Troubleshooting

If you encounter issues with your ID-COOLING fans, try the following troubleshooting steps:

- **Fans Not Spinning:**

- Ensure the 4-pin PWM fan cables are securely connected to the motherboard fan headers.
- Check your motherboard's BIOS/UEFI settings to ensure fan headers are enabled and configured correctly (e.g., not set to 0 RPM at low temperatures).
- Try connecting the fan to a different fan header on the motherboard to rule out a faulty header.

- **RGB Lighting Not Working or Incorrect Colors:**
  - Verify that the 5V 3-PIN ARGB cables are correctly connected to a 5V 3-PIN ARGB header on your motherboard. **Ensure it is not connected to a 12V 4-PIN RGB header.**
  - Check your motherboard's ARGB control software (e.g., Asus Aura Sync, Gigabyte RGB Fusion) to ensure the lighting is enabled and configured as desired.
  - If daisy-chaining, ensure all connections between fans are secure.
  - Try restarting your computer or reinstalling the motherboard's ARGB software.

- **Excessive Noise:**
  - Ensure the fans are securely mounted and not vibrating against the case.
  - Check for any cables or obstructions touching the fan blades.
  - Clean any dust buildup on the fan blades.
  - Adjust fan speed settings in your motherboard's BIOS/UEFI or software to a lower RPM if noise is a concern and temperatures allow.

8. Specifications

Feature	Specification
Model	XF-12025-ARGB-TRIO
Fan Dimensions	120mm x 120mm x 25mm (4.72"L x 0.98"W x 4.72"H)
Fan Speed	700 - 1,500 RPM (PWM controlled)
Max. Air Flow	62 CFM
Noise Level	26.4 dB(A)
Power Connector	4-Pin PWM
ARGB Connector	5V 3-PIN Addressable RGB
Voltage	5 Volts (for ARGB)
Wattage	3 watts
Cooling Method	Air
Compatible Devices	Desktop PCs (CPU Cooler, Radiator, PC Chassis)
Material	Copper (as per product data, typically plastic/metal for fans)
Manufacturer	ID-COOLING
Date First Available	December 8, 2020

9. Warranty and Support

ID-COOLING products typically come with a manufacturer's warranty. Please refer to the warranty information provided with your purchase or visit the official ID-COOLING website for details regarding warranty terms and conditions.

For technical support, product inquiries, or warranty claims, please contact ID-COOLING customer service through their official channels. Keep your proof of purchase for warranty validation.

You can often find support information and FAQs on the ID-COOLING official website:www.idcooling.com

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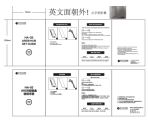
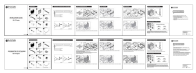
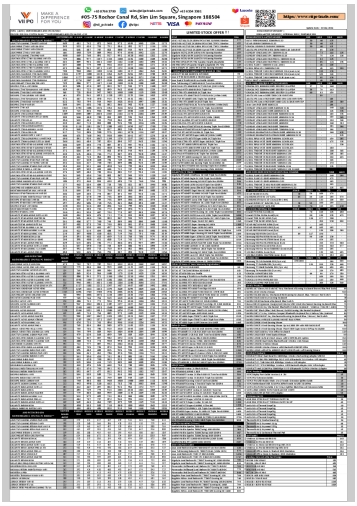
Related Documents - XF-12025-ARGB-TRIO

	ID-COOLING CPU Cooler Installation Guide Comprehensive installation guide for the ID-COOLING CPU cooler, covering component lists, Intel and AMD socket installation, and ARGB fan cable connections. Includes troubleshooting tips and contact information for support.
	ID-COOLING SE-214-XT / SE-903-XT Series CPU Cooler Installation Guide A comprehensive installation guide for ID-COOLING SE-214-XT and SE-903-XT series CPU coolers, detailing component lists, installation procedures for Intel LGA1700/1200/115X and AMD AM5/AM4 sockets, and ARGB synchronization.
	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 HA-02 ARGB Hub User Manual and Connection Guide User guide for the ID-COOLING HA-02 ARGB Hub, detailing components, ports, connections, and motherboard RGB synchronization for PC building.
	ID-COOLING SE-XT Series CPU Cooler Installation Guide Installation guide for ID-COOLING SE-XT Series CPU coolers, detailing component identification, Intel and AMD socket installation steps, fan mounting, and ARGB connection. Includes support information and contact details.
	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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