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Montech METALPRO12B3IN1

MONTECH Metal PRO 12 120mm ARGB PWM High-Pressure Fans - User Manual

Model: METALPRO12B3IN1

1. Introduction

Thank you for choosing the MONTECH Metal PRO 12 ARGB PWM High-Pressure Fans. This 3-pack fan kit is designed to provide efficient cooling and vibrant ARGB lighting for your computer system. Featuring a high static pressure design and Fluid Dynamic Bearings (FDB), these fans ensure optimal heat dissipation with reduced noise levels and extended lifespan.
Please read this manual thoroughly before installation and operation to ensure proper use and to maximize the performance and longevity of your fans.

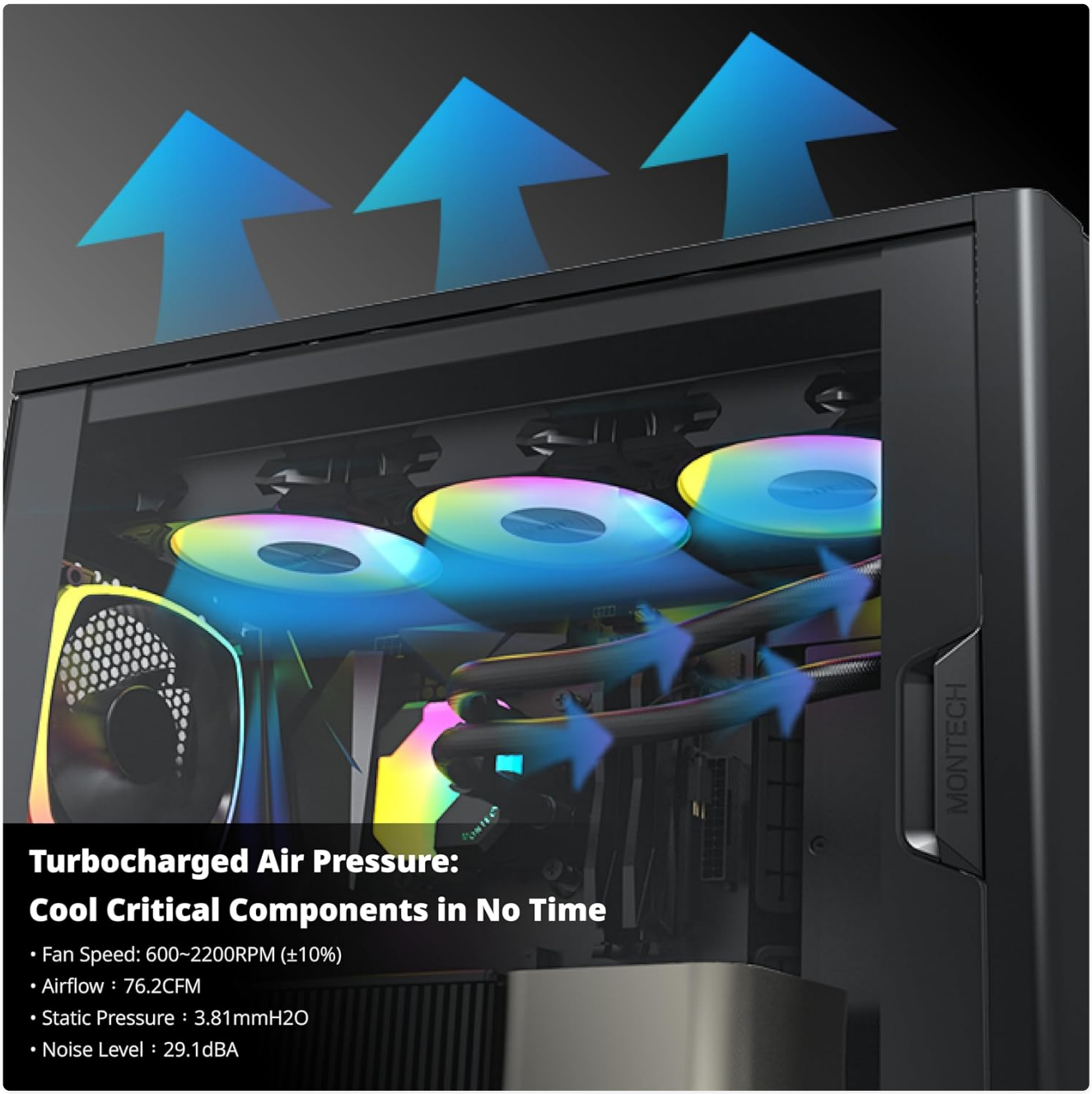


Figure 1: MONTECH Metal PRO 12 ARGB PWM Fan

2. Safety Information

Always observe the following safety precautions to prevent damage to the product or injury to yourself:

- Ensure your computer system is powered off and unplugged from the wall outlet before installation.
- Handle components with care to avoid electrostatic discharge. Consider using an anti-static wrist strap.
- Do not attempt to modify the fans or fan hub. Unauthorized modifications may void your warranty.
- Keep the product away from liquids and excessive humidity.
- Ensure proper cable routing to prevent interference with moving parts or other components.

3. Package Contents

Verify that all items are present in your package:

- 3 x MONTECH Metal PRO 12 120mm ARGB PWM Fans

- 1 x 6x6 PWM and ARGB Fan Hub
- Mounting Screws (12 pieces)

4. Installation Guide

4.1. Prepare Your System

Before beginning installation, ensure your computer is completely shut down and disconnected from the power supply. Open your computer case to access the fan mounting locations.

4.2. Mount the Fans

Identify the desired mounting locations within your PC case (e.g., front, top, rear, bottom). Use the included mounting screws to secure each fan to the case. Ensure the fan's airflow direction is appropriate for your cooling setup (typically intake at the front/bottom, exhaust at the rear/top).

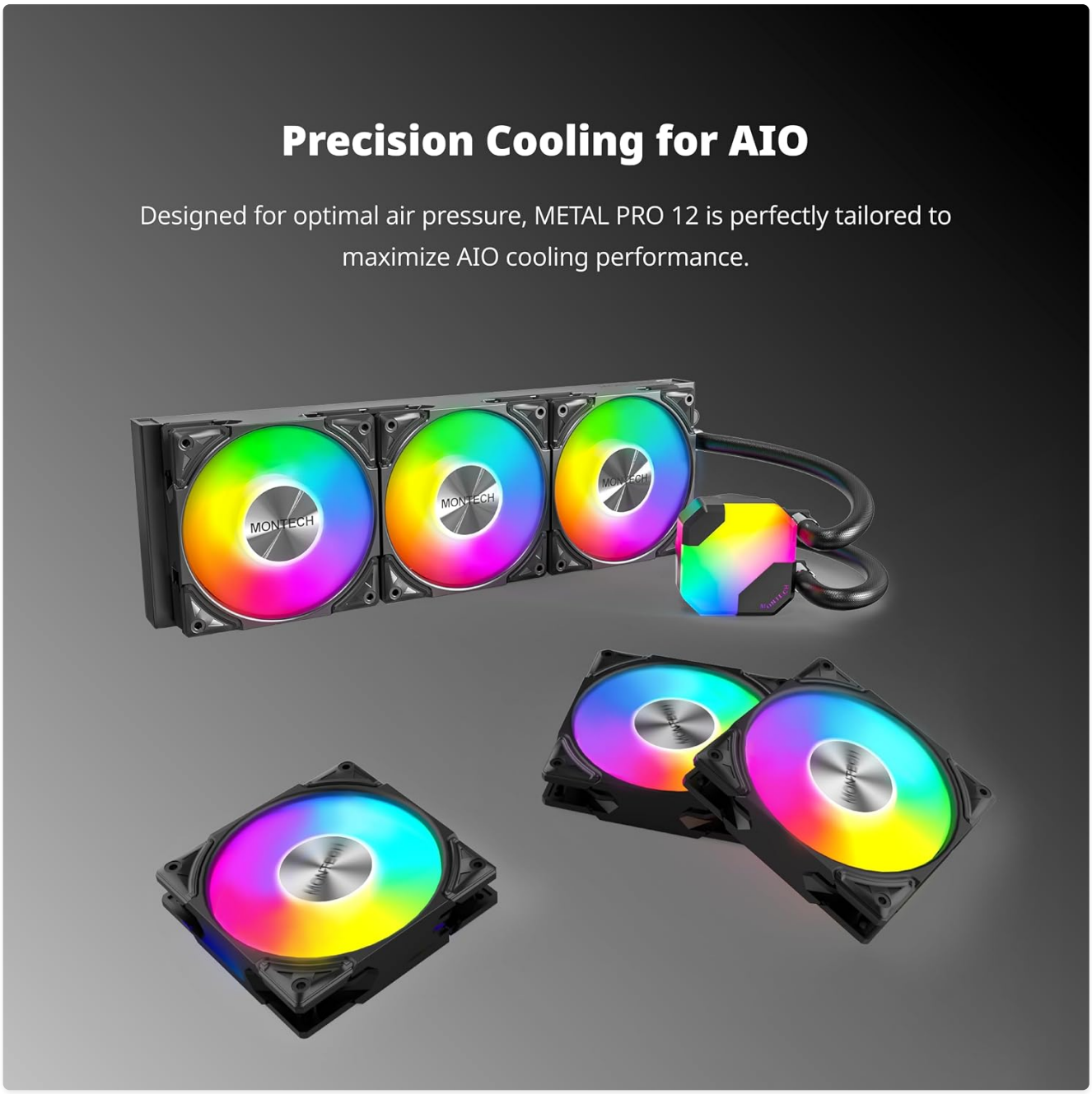


Figure 2: Fans installed in a PC case, illustrating airflow.

4.3. Connect the Fans to the Hub

Each Metal PRO 12 fan has two cables: a 4-pin PWM cable and a 3-pin ARGB cable. Connect these cables from each fan to the corresponding ports on the 6x6 Fan Hub. The hub provides dedicated ports for both PWM fan control and ARGB lighting synchronization.

4.4. Connect the Hub to the Motherboard and Power Supply

- **PWM Connection:** Connect the 4-pin PWM cable from the fan hub to an available 4-pin fan header on your motherboard (e.g., CPU_FAN, SYS_FAN). This allows your motherboard to control fan speeds.
- **ARGB Connection:** Connect the 3-pin ARGB cable from the fan hub to an available 3-pin 5V ARGB header on your motherboard. **Do not connect to a 4-pin 12V RGB header, as this will damage the LEDs.**
- **Power Connection:** Connect the SATA power connector from the fan hub to an available SATA power cable from your power supply. This provides power to the fans and ARGB lighting.

4.5. Cable Management

Route all cables neatly to ensure optimal airflow within your case and to prevent them from interfering with other components. Use cable ties or Velcro straps if necessary.

5. Operating Instructions

5.1. Fan Speed Control (PWM)

The Metal PRO 12 fans support PWM control, allowing your motherboard to dynamically adjust fan speeds based on system temperature. You can configure fan curves through your motherboard's BIOS/UEFI settings or using motherboard-specific software (e.g., ASUS AI Suite, MSI Dragon Center, Gigabyte SIV).

- **BIOS/UEFI:** Access your motherboard's BIOS/UEFI during startup (usually by pressing DEL or F2). Navigate to the fan control section to set custom fan curves.
- **Software:** Install your motherboard manufacturer's utility software to control fan speeds directly from your operating system.

5.2. ARGB Lighting Control

The ARGB lighting of the Metal PRO 12 fans can be synchronized with your motherboard's ARGB software. Ensure the 3-pin ARGB cable from the hub is correctly connected to your motherboard's 5V ARGB header.

- Install your motherboard's ARGB control software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, Gigabyte RGB Fusion, ASRock Polychrome Sync).
- Use the software to customize lighting effects, colors, and synchronization with other ARGB components.

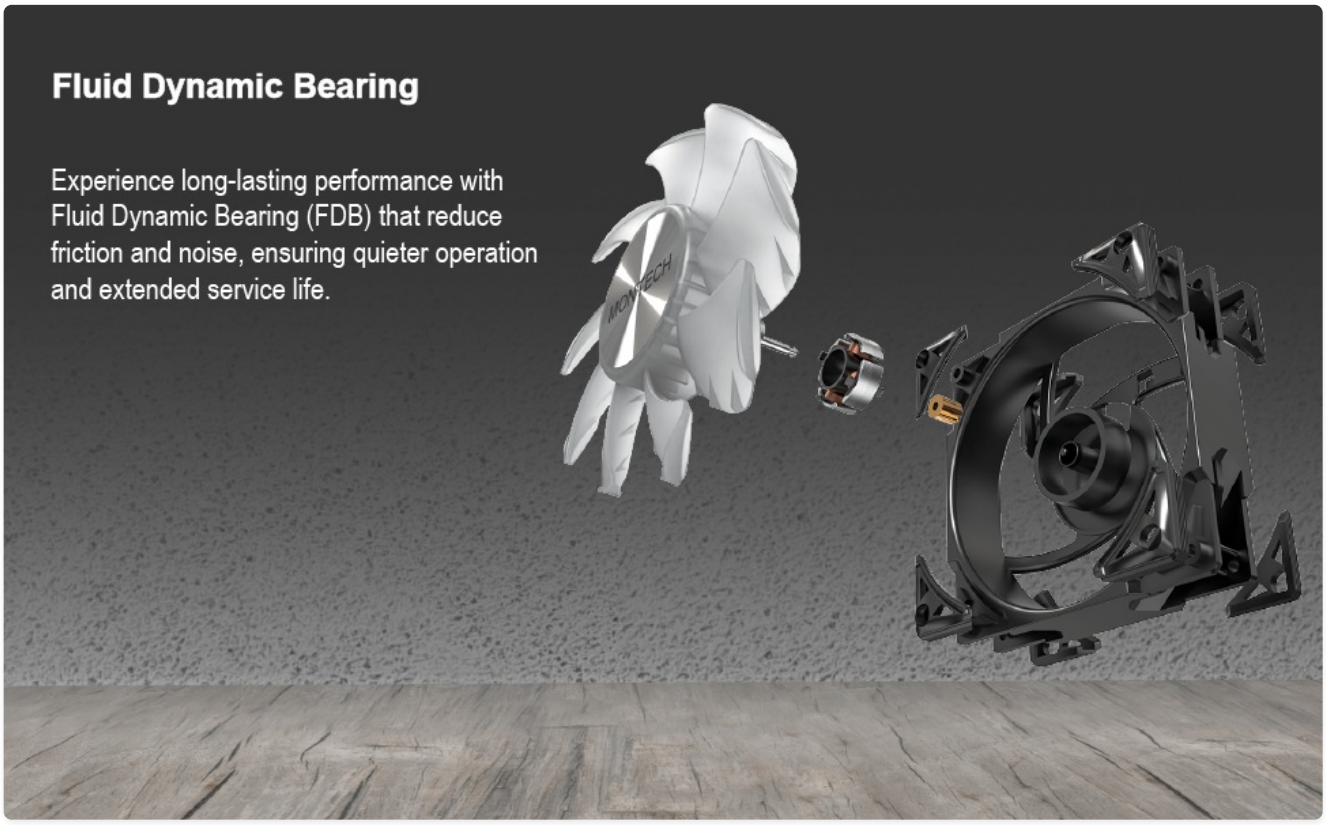


Figure 3: Metal PRO 12 fan showcasing ARGB lighting.

6. Maintenance

6.1. Cleaning

Regular cleaning helps maintain optimal performance and extends the lifespan of your fans:

- Periodically power off your computer and unplug it.
- Use compressed air to gently remove dust from the fan blades and frame. Hold the fan blades to prevent them from spinning rapidly during cleaning, which can damage the bearings.
- For stubborn dirt, use a soft, dry cloth. Avoid using liquid cleaners.

6.2. Inspection

Occasionally inspect the fan cables for any signs of wear or damage. Ensure all connections to the fan hub and motherboard are secure.

Figure 4: Exploded view showing the Fluid Dynamic Bearing (FDB) for quiet operation and longevity.

7. Troubleshooting

7.1. Fans Not Spinning

- Check if the fan hub's SATA power connector is securely connected to the power supply.
- Ensure the 4-pin PWM cable from the hub is correctly connected to a motherboard fan header.
- Verify that the individual fan PWM cables are securely connected to the fan hub.
- Check BIOS/UEFI settings to ensure fan headers are enabled and not set to 0 RPM at low temperatures.

7.2. No ARGB Lighting

- Confirm the 3-pin ARGB cable from the hub is connected to a 5V ARGB header on your motherboard, not a 12V RGB header.
- Ensure the individual fan ARGB cables are securely connected to the fan hub.
- Check your motherboard's ARGB control software to ensure lighting is enabled and configured.
- Verify the fan hub is receiving power via the SATA connector.

7.3. Excessive Noise

- Check for any cables or obstructions hitting the fan blades.
- Ensure fans are securely mounted and not vibrating against the case.
- Adjust fan speed curves in BIOS/UEFI or software to reduce RPM at lower temperatures.
- Clean any dust buildup on the fan blades.

8. Specifications

Feature	Specification
Fan Dimensions	120mm x 120mm x 27mm (4.73"L x 1.11"W x 4.73"H)
Fan Speed	600-2200 RPM (±10%)
Airflow Capacity	76.2 CFM
Static Pressure	3.81 mmH_2O
Noise Level	29.1 dBA
Bearing Type	Fluid Dynamic Bearing (FDB)
Power Connector	4-Pin PWM
ARGB Connector	3-Pin 5V ARGB
Rated Voltage	12V DC
Material	Metal
Item Weight	1.6 pounds (for the pack)

9. Warranty and Support

9.1. Warranty Information

The MONTECH Metal PRO 12 ARGB PWM High-Pressure Fans are backed by a**3-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures reliable performance. Please retain your proof of purchase for warranty claims.



Figure 5: 3-Year Warranty for MONTECH products.

9.2. Customer Support

If you encounter any issues or have questions regarding your MONTECH Metal PRO 12 fans, please visit the official MONTECH website for support resources, FAQs, and contact information. You can also refer to your retailer for assistance.

For more information, visit: www.montechpc.com

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