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› Cooler Master SickleFlow 120 V2 ARGB 3in1 Fan User Manual

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Model: SickleFlow 120 V2 ARGB 3in1 (MFX-B2DN-183PA-R1)

1. INTRODUCTION

The Cooler Master SickleFlow 120 V2 ARGB 3in1 fan kit provides an advanced air cooling solution designed for CPU coolers and computer chassis. This kit includes three 120mm fans, each featuring addressable RGB (ARGB) lighting for customizable visual effects. The fans are engineered with an optimized blade design to enhance airflow and air pressure, an enhanced frame structure to minimize turbulent flow and noise, and a sealed bearing mechanism for improved operational stability and extended lifespan.



Image 1.1: Cooler Master SickleFlow 120 V2 ARGB 3in1 Fan Kit. This image displays three 120mm fans with vibrant ARGB lighting and the included ARGB controller, showcasing the complete product package.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- Cooler Master SickleFlow 120 V2 ARGB Fan (3 units)
- ARGB Controller (1 unit)
- Fan Mounting Screws (12 units)

3. INSTALLATION GUIDE

Follow these steps to properly install your Cooler Master SickleFlow 120 V2 ARGB fans:

1. **Prepare Your System:** Power off your computer and disconnect it from the power source. Open your computer case to

access the fan mounting locations.

2. **Mount the Fans:** Position each fan in your desired location (e.g., front intake, rear exhaust, top exhaust, or on a liquid radiator). Use the included mounting screws to secure the fans to the chassis or radiator. Ensure the fan's airflow direction is correct for your cooling setup.
3. **Connect Fan Power:** Each fan has a 4-pin PWM connector. Connect these to available 4-pin fan headers on your motherboard or a fan hub.
4. **Connect ARGB Lighting:** Each fan has a 3-pin ARGB connector. These can be daisy-chained together.
5. **ARGB Controller Connection (Option A):** If your motherboard does not have a compatible 3-pin ARGB header, connect the daisy-chained ARGB cables to the included Cooler Master ARGB controller. Connect the controller to a SATA power connector from your power supply.
6. **Motherboard ARGB Sync (Option B):** If your motherboard has a compatible 3-pin ARGB header (often labeled 'ADD_HEADER', 'JRAINBOW', '5V-D-G', or similar), connect the daisy-chained ARGB cables directly to this header. Consult your motherboard manual for specific header locations and software control.
7. **Secure Connections:** Ensure all connections are firm. The ARGB connectors feature a secure clip mechanism to prevent accidental disconnections.

ARGB CONTROLLER

With the included Addressable RGB 3-Pin Controller, You can choose your favorite color easily. It also support lighting RESET button of Case.



Image 3.1: Secure Connection. This diagram illustrates how to properly connect the ARGB cables using the secure clip mechanism, ensuring a stable and reliable connection.



Image 3.2: ARGB Controller. This image shows the included ARGB controller, highlighting its reset and lighting mode buttons for manual control of the fan's lighting effects.

4. OPERATION

4.1 Fan Speed Control (PWM)

The SickleFlow 120 V2 fans utilize Pulse Width Modulation (PWM) technology, allowing for dynamic adjustment of fan speed. This enables optimization between cooling performance and noise levels. You can control the fan speed through your motherboard's BIOS/UEFI settings or dedicated fan control software provided by your motherboard manufacturer.

SECURE CONNECTION

No more worrying about loose connections. The clip secures both ends in place for easier cable management.

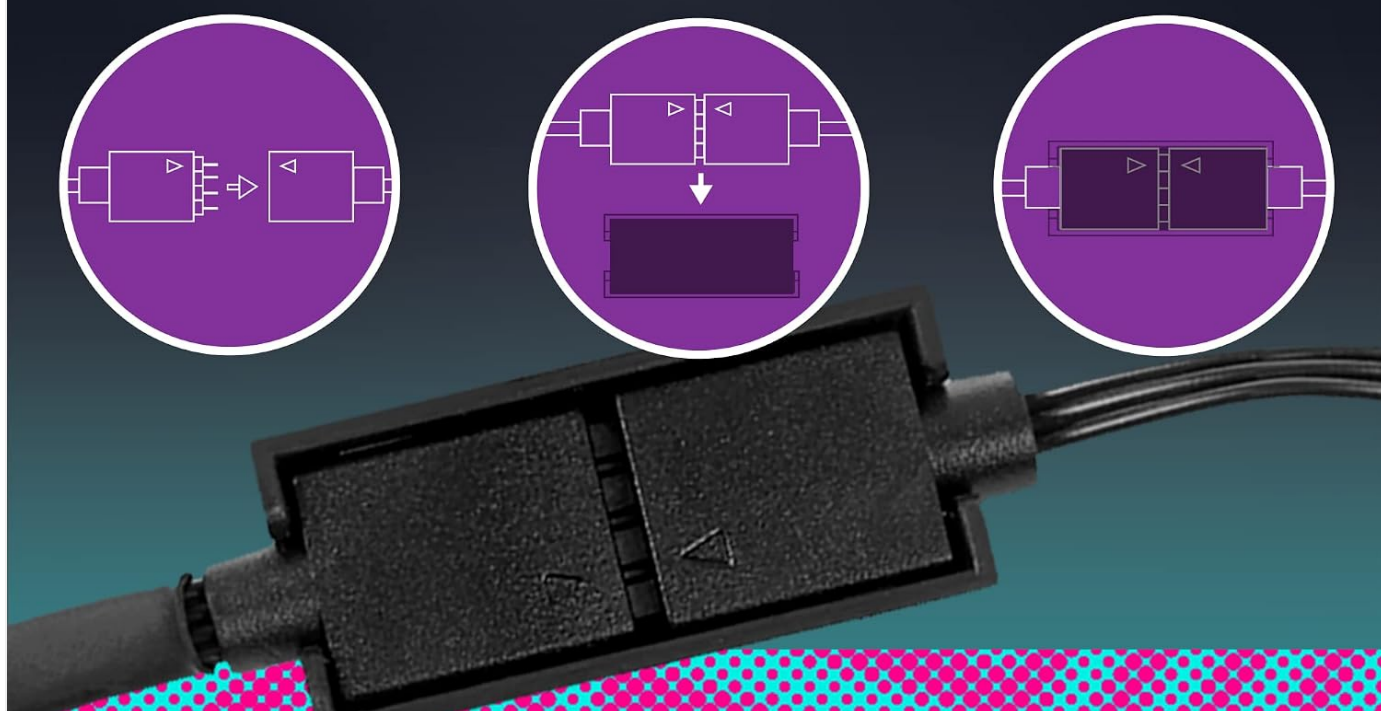


Image 4.1: PWM Fan Control. This graphic depicts how PWM dynamically adjusts fan speed from low to high RPM, balancing noise reduction with maximum airflow.

4.2 ARGB Lighting Control

The Addressable RGB (ARGB) lighting offers extensive customization options:

- **Using the Included Controller:** If connected to the Cooler Master ARGB controller, use the buttons on the controller to cycle through various lighting modes and colors. There is typically a 'Lighting Mode' button to change effects and a 'Reset' button to revert to default or synchronize.
- **Motherboard Software Sync:** If connected to a compatible motherboard ARGB header, you can control the lighting effects using your motherboard's RGB software (e.g., ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync, ASRock Polychrome Sync). This allows for synchronized lighting across compatible components.

ARGB LIGHTING

Signature cooling performance with an enhance light dispersion for a vibrant and radiant lighting effect. The ARGB (3-Pin) gives everyone the versatility for a fully customizable lighting.



***Require ARGB supporting Motherboard or Controller**

Image 4.2: ARGB Lighting. A close-up view of the fan's ARGB lighting, illustrating its vibrant and customizable nature, along with logos of compatible motherboard ARGB synchronization technologies.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your fans:

- **Cleaning:** Periodically clean the fan blades and frame to remove dust buildup. Use compressed air or a soft brush. Ensure the fan is powered off and disconnected before cleaning.
- **Bearing System:** The SickleFlow 120 V2 features a sealed bearing structure designed to prevent dust and lubricating oil leakage, reducing the need for frequent maintenance. Do not attempt to lubricate the bearing yourself.

NEW BEARING SEALANT

Two-tier sealing mechanism, preventing dust and lubricating oil leakage while increasing the fan's operation stability and life span.

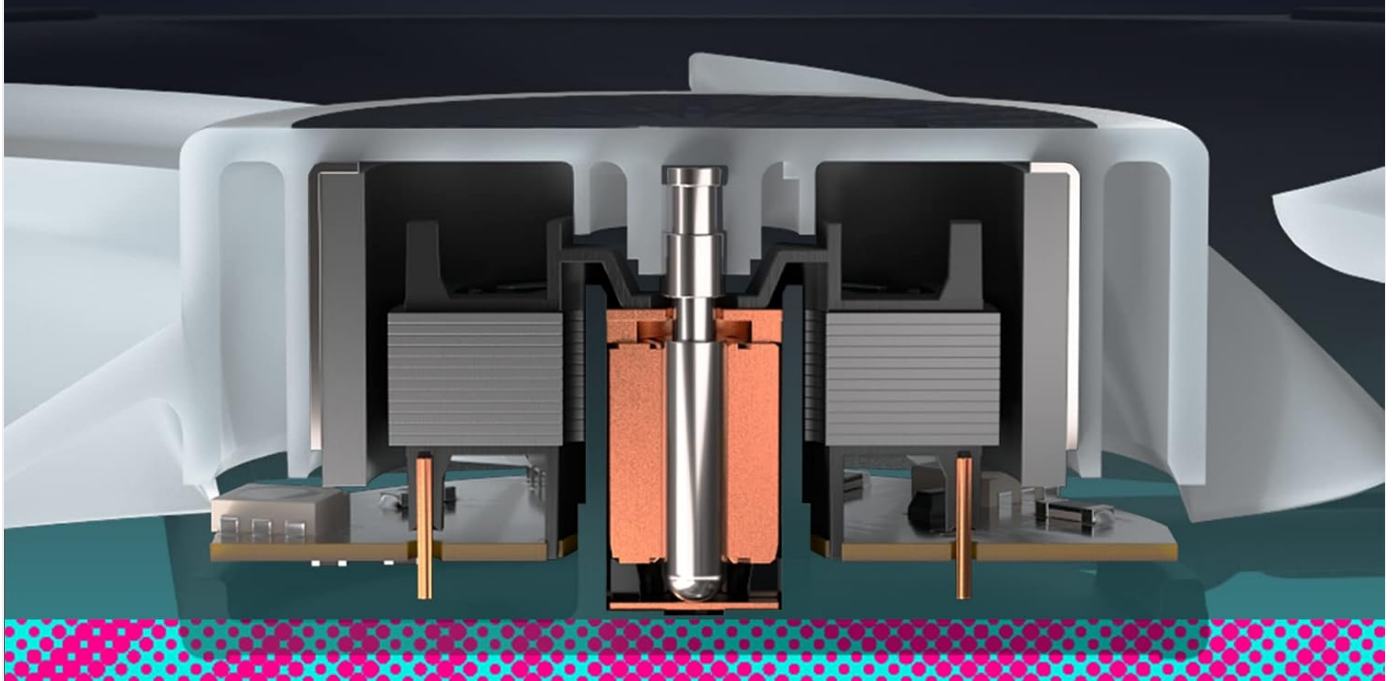


Image 5.1: New Bearing Sealant. This cross-section diagram illustrates the two-tier sealing mechanism of the fan's bearing, designed to prevent dust and oil leakage for enhanced durability.

6. TROUBLESHOOTING

If you encounter issues with your SickleFlow 120 V2 ARGB fans, refer to the following common problems and solutions:

- **Fan Not Spinning:**

- Ensure the 4-pin PWM power cable is securely connected to a motherboard fan header or fan hub.
- Check your motherboard's BIOS/UEFI settings to ensure the fan header is enabled and configured correctly.

- **ARGB Lighting Not Working:**

- Verify that the 3-pin ARGB cable is securely connected to either the included ARGB controller or a compatible motherboard ARGB header.
- If using the controller, ensure it is receiving power via its SATA power connector.
- If connected to the motherboard, ensure your motherboard's ARGB software is installed and configured correctly.

- Confirm that the ARGB header on your motherboard is a 5V 3-pin header, not a 12V 4-pin RGB header, as these are incompatible.
- **Excessive Noise:**
 - Check for any obstructions (cables, debris) that might be hitting the fan blades.
 - Ensure the fan is securely mounted and not vibrating against the case.
 - Adjust fan speed settings in your motherboard's BIOS/UEFI or fan control software to a lower RPM.

7. SPECIFICATIONS

Feature	Detail
Model Number	MFX-B2DN-183PA-R1
Product Dimensions	4.72 x 4.72 x 0.98 inches (120 x 120 x 25 mm)
Brand	Cooler Master
Power Connector Type	3-Pin (ARGB), 4-Pin (PWM Fan)
Voltage	240 Volts (Note: Typical PC fans operate at 12V DC. Please refer to product packaging for exact operating voltage.)
Wattage	3.84 watts
Cooling Method	Air Fan
Compatible Devices	Desktop Computers
Noise Level	27 dB
Material	Plastic
Maximum Rotational Speed	1800 RPM

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official Cooler Master website. Warranty terms and conditions may vary by region and retailer.

Cooler Master Official Website: www.coolermaster.com

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question