Cooler Master MFL-B2DW-18NPA-R1

Cooler Master MasterFan MF120 Halo White Fan Instruction Manual

Model: MFL-B2DW-18NPA-R1

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Cooler Master MasterFan MF120 Halo White Edition fan. Please read this manual thoroughly before use to ensure proper functionality and longevity of the product.

PRODUCT FEATURES

- **Duo-Ring Addressable RGB Lighting:** Features 24 individually controlled ARGB LEDs for customizable visual effects.
- **Performance Engineered:** Hybrid Static Pressure blade design optimizes airflow against resistance in CPU liquid radiators, low-noise, or mesh chassis ventilation.
- **Silent Cooling Technology:** Incorporates noise reduction technologies and sound-absorbing materials for quiet operation.
- **PWM Fan Control:** Dynamic speed adjustment between 650 RPM to 1,800 RPM for optimal balance between noise and airflow.
- **Certified Compatibility:** Compatible with most Addressable RGB capable motherboards including Aura, Mystic Light, and Polychrome Sync.

PACKAGE CONTENTS

Verify that all components are present in the package:

- 1x MasterFan MF120 Halo White Edition Fan
- 4x Fan Mounting Screws
- 1x ARGB Header Extender (Male-to-Male)
- 1x ARGB Cable Clip

Image: The Cooler Master MasterFan MF120 Halo White Edition fan, showcasing its white frame and translucent fan blades.

SPECIFICATIONS

Feature	Specification
Product Dimensions	4.72"L x 0.98"W x 4.72"H
Brand	Cooler Master
Power Connector Type	4-Pin PWM
Voltage	12 Volts

Feature	Specification
Wattage	260 watts
Cooling Method	Air Fan
Compatible Devices	Radiator, PC Case
Noise Level	6-30 Decibels (Max)
Material	Copper (referring to internal components, not entire fan)
Maximum Rotational Speed	1800 RPM
Air Flow Capacity	47.2 Cubic Feet Per Minute (CFM)
Item Model Number	MFL-B2DW-18NPA-R1

SETUP AND INSTALLATION

Follow these steps to properly install your MasterFan MF120 Halo fan:

1. **Mounting the Fan:**
   Position the fan in your desired location (e.g., PC case, radiator). Use the four provided mounting screws to secure the fan. Ensure the fan is oriented correctly for optimal airflow (intake or exhaust).

Image: A close-up of the fan blades, highlighting the hybrid design engineered for static pressure and airflow.

2. **Connecting Power (PWM):**
Connect the 4-pin PWM cable from the fan to an available 4-pin fan header on your motherboard. This allows for dynamic speed control based on system temperature.

3. **Connecting ARGB Lighting:**
Connect the 3-pin ARGB cable from the fan to an available 3-pin Addressable RGB header on your motherboard. If connecting multiple ARGB devices, use the provided ARGB Header Extender for daisy-chaining. Use the ARGB Cable Clip to secure connections and prevent accidental disconnections.
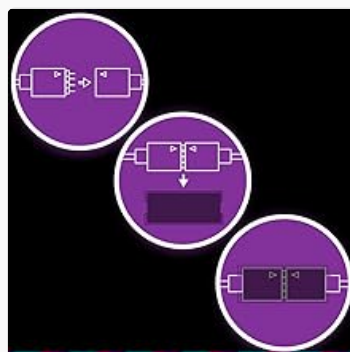

Image: Diagram illustrating the use of connector clips to secure ARGB cables, ensuring stable connections.

Image: Diagram illustrating the ARGB header extender, allowing multiple fans to be connected in a daisy-chain configuration.

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Video: An official Cooler Master video demonstrating the Halo series fans, including their aesthetic and general setup within a PC build.

OPERATING THE FAN AND ARGB LIGHTING

Once installed, the fan will operate based on your motherboard's fan control settings. For ARGB lighting customization, use your motherboard's compatible software (e.g., ASUS Aura Sync, MSI Mystic Light, Gigabyte RGB Fusion, ASRock Polychrome Sync) or Cooler Master's MasterPlus+ software.

- **Fan Speed Control:** Adjust fan curves in your motherboard's BIOS or software to optimize cooling performance and noise levels.
- **ARGB Customization:** Use the software to select various lighting modes (e.g., Spectrum, Static, Breathing, Fill Flow), colors, and effects. Some software may allow individual LED control for advanced customization.

Your browser does not support the video tag.

Video: An official Cooler Master video demonstrating the MF120 Halo fan's lighting effects and control through the MasterPlus+ software, showcasing various customization options.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your fan:

- **Cleaning:** Periodically clean the fan blades and frame to remove dust buildup. Use compressed air or a soft brush. Ensure the system is powered off before cleaning.
- **Inspection:** Check cables for any signs of wear or damage. Ensure all connections remain secure.
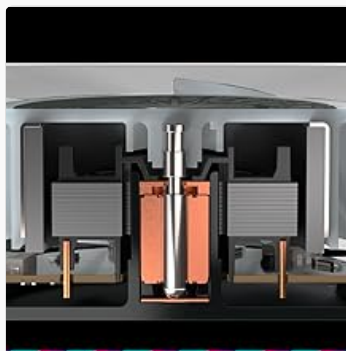

Image: Diagram illustrating the sealed bearing design, which helps prevent dust and lubricant leakage, contributing to increased fan lifespan.

TROUBLESHOOTING

- **Fan Not Spinning:**

    - Check if the 4-pin PWM cable is securely connected to the motherboard.
    - Verify fan settings in BIOS/UEFI to ensure it's enabled and configured correctly.

- **ARGB Lights Not Working/Incorrect Colors:**

    - Ensure the 3-pin ARGB cable is correctly connected to a compatible ARGB header (not a 4-pin RGB header).
    - Update your motherboard's ARGB software or Cooler Master MasterPlus+ software to the latest version.
    - Verify ARGB settings in the software.

- **Excessive Noise:**

    - Check for any obstructions to the fan blades.
    - Ensure mounting screws are tightened properly to prevent vibration.
    - Adjust fan speed settings in BIOS/UEFI or software to a lower RPM.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Cooler Master website or contact their customer service directly. Keep your proof of purchase for warranty claims.
Website: www.coolermaster.com

Related Documents - MFL-B2DW-18NPA-R1

	Cooler Master MasterLiquid ML360L V2 ARGB User Manual Comprehensive user manual for the Cooler Master MasterLiquid ML360L V2 ARGB and ML360L V2 ARGB White Edition All-In-One Liquid CPU Cooler. Includes parts list, detailed installation guides for Intel and AMD sockets, wiring instructions, and troubleshooting notes.
	Cooler Master MasterLiquid ML240L V2 ARGB CPU Liquid Cooler User Manual Comprehensive user manual for the Cooler Master MasterLiquid ML240L V2 ARGB All-In-One (AIO) liquid CPU cooler, covering installation, parts, and troubleshooting.
	Cooler Master MasterLiquid ML240L V2 ARGB User Manual User manual for the Cooler Master MasterLiquid ML240L V2 ARGB and MasterLiquid ML240L V2 ARGB White Edition liquid CPU coolers, detailing installation and component identification.

[Cooler Master Hyper 212 Halo Black & White CPU Cooler Installation Manual](#)
This manual provides detailed instructions for installing the Cooler Master Hyper 212 Halo Black and Hyper 212 Halo White CPU coolers on Intel and AMD platforms. It covers package contents, compatibility, and step-by-step assembly.

[Cooler Master TD500 MAX PC Case User Manual and Installation Guide](#)
Comprehensive user manual for the Cooler Master TD500 MAX PC case, detailing package contents, compatibility, front I/O, step-by-step installation instructions, technical specifications, and warranty information.

[Cooler Master Mail-In Rebate Offer for Newegg.com Purchases](#)
Details of the Cooler Master mail-in rebate promotion for eligible products purchased at Newegg.com between February 15, 2021, and March 1, 2021. Includes product list, claim instructions, and terms.