

## MUNFROST FN-12

# MUNFROST FN-12 Rainbowforce ARGB 120mm Fan User Manual

Model: FN-12

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MUNFROST FN-12 Rainbowforce ARGB 120mm fan. Please read this manual carefully before installation and retain it for future reference.

## 2. PRODUCT OVERVIEW AND FEATURES

The MUNFROST FN-12 Rainbowforce ARGB 120mm fan is designed to provide efficient cooling and vibrant lighting for your PC case. It features a hydraulic bearing for quiet operation and extended lifespan.

### Key Features:

- ARGB 5V connector for synchronization with compatible motherboards.
- Silent hydraulic bearing, offering up to 30,000 hours of operation.
- Connectivity via Molex or 3-pin fan connector, with a 3-pin ARGB connector including a Male/Female adapter.
- Nine blades designed to deliver excellent airflow to your case, up to 56.52 CFM.
- Soft rubber pads on each corner to minimize vibrations and noise.



Image 2.1: Front view of the MUNFROST FN-12 Rainbowforce ARGB 120mm fan showcasing its vibrant lighting.



Image 2.2: Front view of the MUNFROST FN-12 fan with its white blades visible.

### 3. SETUP AND INSTALLATION

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Follow these steps to properly install your MUNFROST FN-12 fan into your computer case.

#### 3.1 Physical Installation

1. Identify an available 120mm fan mounting location in your PC case.
2. Position the fan in the desired orientation for airflow (intake or exhaust).
3. Secure the fan to the case using the provided screws. The soft rubber pads on the corners help reduce vibration.



Image 3.1: Example of the MUNFROST FN-12 fan installed within a computer case.

## 3.2 Electrical Connections

The FN-12 fan requires two types of connections: one for power/fan speed and one for ARGB lighting.

1. **Fan Power (3-pin or Molex):** Connect the fan's 3-pin connector to an available 3-pin FAN header on your motherboard. Alternatively, if no 3-pin headers are available, connect the Molex connector directly to your power supply.
2. **ARGB Lighting (5V 3-pin):** Connect the fan's 3-pin ARGB connector to a 5V 3-pin ARGB header on your motherboard. This allows for synchronization of lighting effects. The fan includes a Male/Female adapter for compatibility.



Image 3.2: Illustration of the fan's power and ARGB connectors.

### Important Note:

- Consult your motherboard manual to locate the correct 5V 3-pin ARGB header. Do not connect to a 12V 4-pin RGB header, as this may damage the fan.
- If your motherboard lacks a 5V 3-pin ARGB header, you may need an external ARGB controller (sold separately) to control the lighting effects.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Fan Speed Control

When connected directly to a motherboard's 3-pin FAN header or a power supply via Molex, the fan will operate at 100% speed. For variable speed control, a fan controller (sold separately) is required.

### 4.2 ARGB Lighting Control

If connected to a compatible 5V 3-pin ARGB motherboard header, you can control the lighting effects using your motherboard's RGB software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, Gigabyte RGB Fusion, ASRock

Polychrome Sync). Refer to your motherboard's documentation for specific software instructions.



Image 4.1: The fan illuminated with blue and green ARGB lighting.





Image 4.2: The fan illuminated with blue and purple ARGB lighting.

## 5. MAINTENANCE

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Regular maintenance ensures optimal performance and longevity of your fan.

### 5.1 Cleaning

- Periodically clean the fan blades and frame to remove dust buildup.
- Use compressed air or a soft brush to gently remove dust.
- Ensure the fan is powered off and disconnected from the power supply before cleaning.

## 6. TROUBLESHOOTING AND FAQ

This section addresses common questions and issues you might encounter.

### Frequently Asked Questions:

- Q: Do I need a special port on my Motherboard?**  
A: For the fan to spin, you can use a standard 3-pin FAN port, which most motherboards have. For ARGB lighting, you will need a 5V 3-pin ARGB port. Consult your motherboard manual to verify its presence.
- Q: What if I don't have the 5V 3-pin ARGB port?**  
A: If your motherboard does not have this port, you can acquire an external ARGB controller (e.g., MUFROST Solar Wind 3-fan kit, ASIN: B08DRQ134N) which includes multiple ARGB ports.
- Q: Can I control the fan speed of this fan?**  
A: When connected directly to the motherboard or power supply, the fan will always spin at 100%. To control the fan speed, you would need a fan controller (e.g., included in the MUFROST Solar Wind 3-fan kit).



Image 6.1: The fan is designed for quiet operation.

## 7. SPECIFICATIONS

Feature	Specification
Brand	MUFROST
Model Number	FN-12
Fan Dimensions	120mm (standard)
Connector Type (Power)	3-pin / Molex
Connector Type (ARGB)	5V 3-pin ARGB
Voltage	5 Volts (for ARGB)
Cooling Method	Air
Compatible Devices	Desktop Computer
Material	Plastic
Airflow Capacity	56.52 Cubic Feet per Minute (CFM)
Bearing Type	Hydraulic
Lifespan	Up to 30,000 hours

## 8. WARRANTY AND SUPPORT

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MUNFROST products are manufactured with quality and reliability in mind. For warranty information or technical support, please refer to the official MUNFROST website or contact your retailer.

You can visit the official MUNFROST store for more products and support: [MUNFROST Store](#)