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NZXT RF-U36HF-B1

NZXT F360 RGB Core Fan Unit Instruction Manual

Model: RF-U36HF-B1

1. Introduction and Overview

The NZXT F360 RGB Core is a 360mm single-frame fan unit designed to provide superior cooling performance and striking RGB visuals for your PC. This unit integrates three 120mm RGB fans into a single frame, simplifying installation and cable management. It features high static pressure and airflow capabilities, ensuring efficient heat dissipation, and is built with fluid dynamic bearings for quiet and durable operation.



Figure 1.1: Front view of the NZXT F360 RGB Core Fan Unit.

2. Product Features

- **All-in-One Design:** Single-frame unit with integrated fans streamlines installation and lighting control, eliminating the need to connect individual fans.



Figure 2.1: Illustration of the all-in-one design for simplified installation.

- **Versatile Connectivity:** Connects to an NZXT controller (sold separately) for lighting and speed control via NZXT CAM software, or directly to any motherboard's 5V aRGB header using the included splitter cable.



Figure 2.2: The fan unit showing its connection points and the included splitter cable.

- **Optimal Performance:** Fan blades are specifically designed to boost static pressure, effectively pushing air through tight spaces, while ensuring superior airflow for efficient cooling.



Figure 2.3: Performance metrics for static pressure and airflow.

- **Silent & Durable:** Equipped with fluid dynamic bearings that ensure quiet operation and extended longevity, boasting an exceptional 60,000-hour lifespan.



Figure 2.4: Internal view highlighting the fluid dynamic bearings for durability.

- **Vibrant Lighting:** Features eight individually addressable RGB LEDs per fan hub, which illuminate through semi-translucent blades for personalized and striking lighting effects.



Figure 2.5: Detailed view of the fan's RGB lighting.

- **PWM Control:** Dynamically adjusts fan speeds based on PC temperatures for optimal efficiency, requiring a PWM connection to the motherboard or a compatible controller.



Figure 2.6: Fan speed control mechanism.

- **Silent Operation:** Anti-vibration rubber corners dampen noise, and Zero RPM Mode (requires NZXT controller or motherboard) shuts fans off during light loads for near-silent performance.



Figure 2.7: Noise level indication for silent operation.

3. What's in the Box

Your NZXT F360 RGB Core Fan Unit package includes:

- NZXT F360 RGB Core Fan Unit (360mm Single-Frame with 3 x 120mm RGB Fans)
- Included splitter cable for 5V aRGB motherboard connection



Figure 3.1: Packaging and contents of the NZXT F360 RGB Core Fan Unit.

4. Setup and Installation

The single-frame design of the NZXT F360 RGB Core simplifies the installation process. Follow these general steps for integration into your PC system:

1. **Prepare Your Case:** Identify the appropriate mounting location within your PC case for a 360mm fan unit (e.g., front, top, or bottom radiator mounts). Ensure sufficient clearance.
2. **Mount the Fan Unit:** Secure the NZXT F360 RGB Core fan unit to your PC case using the provided screws. The single frame requires fewer screws compared to individual fans, making this step quicker.
3. **Connect Power and RGB:**
    - **Option 1 (Recommended for full control):** Connect the fan unit's cable to an NZXT controller (sold separately). This allows for comprehensive speed and lighting control via NZXT CAM software.
    - **Option 2 (Basic RGB control):** Use the included splitter cable to connect the fan unit's 5V aRGB header to a compatible 5V aRGB header on your motherboard. This allows for basic RGB synchronization with your

motherboard's software.

- Ensure the 8-pin power connector is securely attached to its corresponding port.



Figure 4.1: Connection diagram for the fan unit.

4. **Cable Management:** Route cables neatly to ensure optimal airflow within your case and a clean aesthetic.

5. Operating Instructions

Once installed, the NZXT F360 RGB Core fan unit can be controlled and customized through software, depending on your connection method.

5.1 Using NZXT CAM Software (with NZXT Controller)

If connected to an NZXT controller (sold separately), you can utilize the NZXT CAM software for comprehensive control:

- **Download and Install CAM:** Visit the official NZXT website to download and install the latest version of NZXT CAM software.
- **Launch CAM:** Open the NZXT CAM application. It should automatically detect your connected NZXT devices, including the F360 RGB Core fan unit.
- **Fan Speed Control:** Navigate to the 'Cooling' section within CAM. Here, you can monitor fan speeds and temperatures, and select from various fan profiles (e.g., Silent, Performance, Fixed) or create custom fan curves to optimize cooling based on your system's needs.
- **RGB Lighting Customization:** Go to the 'Lighting' section. You can choose from a wide array of preset lighting effects, adjust colors, brightness, and synchronize lighting with other NZXT RGB components for a unified aesthetic.



Figure 5.1: NZXT CAM software interface for fan and lighting control.

5.2 Using Motherboard aRGB Software (with 5V aRGB Header)

If connected directly to your motherboard's 5V aRGB header, control will be managed by your motherboard's proprietary RGB software (e.g., ASUS Aura Sync, MSI Mystic Light, Gigabyte RGB Fusion, ASRock Polychrome Sync).

- **Install Motherboard Software:** Download and install the relevant RGB control software from your motherboard manufacturer's website.
- **Control Lighting:** Use the motherboard software to select lighting effects and colors for the fan unit. Fan speed control in this configuration will typically be managed through your motherboard's BIOS/UEFI settings or a separate fan control utility.

6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your NZXT F360 RGB Core fan unit.

- **Regular Cleaning:** Periodically clean the fan blades and frame to prevent dust buildup, which can impede airflow

and increase noise. Use compressed air or a soft brush to gently remove dust. Ensure the PC is powered off and unplugged before cleaning.

- **Bearing Longevity:** The fluid dynamic bearings are designed for a long lifespan (60,000 hours) and generally do not require lubrication. Avoid disassembling the fan unit, as this can void the warranty and damage the bearings.
- **Cable Inspection:** Occasionally check all connected cables for secure connections and signs of wear or damage.

7. Troubleshooting

If you encounter issues with your NZXT F360 RGB Core fan unit, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
Fans not spinning	Loose power connection; Incorrect fan header connection; Zero RPM Mode active; Software issue.	Ensure all power cables (8-pin) are securely connected. Verify the fan unit is connected to a proper fan header on the motherboard or NZXT controller. Check NZXT CAM or motherboard software settings for Zero RPM Mode. Restart PC.
RGB lighting not working	Loose RGB connection; Incorrect RGB header connection (e.g., 12V instead of 5V); Software conflict; Damaged LEDs.	Check the 5V aRGB connection to the motherboard or NZXT controller. Ensure it's connected to a 5V addressable RGB header, not a 12V RGB header. Verify software settings (NZXT CAM or motherboard RGB software). Try reinstalling software. If individual LEDs are out, contact support.
Excessive noise/vibration	Loose mounting screws; Dust buildup; High fan speed; Bearing issue.	Ensure the fan unit is securely mounted and screws are tightened appropriately (do not overtighten). Clean fan blades and frame. Adjust fan speed profiles in NZXT CAM or BIOS to a quieter setting. If noise persists, contact support.
Fans not detected by software	Incorrect connection; Software not updated; Driver issue.	Confirm the fan unit is correctly connected to an NZXT controller or motherboard 5V aRGB header. Ensure NZXT CAM or motherboard software is up-to-date. Reinstall software or update motherboard drivers.

If these steps do not resolve the issue, please refer to the Warranty and Support section for further assistance.

8. Specifications

Detailed specifications for the NZXT F360 RGB Core Fan Unit:

Specification	Value
Model Number	RF-U36HF-B1
Product Dimensions	15.83 x 5.04 x 1.26 inches
Weight	1.03 Pounds
Power Connector Type	8-Pin
Voltage	12 Volts
Wattage	9.48 watts

Specification	Value
Cooling Method	Fan
Compatible Devices	Desktop
Noise Level (Max)	30 dB
Material	Copper
Maximum Rotational Speed	2400 RPM
Air Flow Capacity (Max)	75.12 Cubic Feet Per Minute (per fan)
Bearing Type	Fluid Dynamic Bearings
Lifespan	60,000 hours

9. Warranty and Support

NZXT products are designed for reliability and come with a manufacturer's warranty. While specific warranty terms may vary by region, NZXT typically offers a 5-year warranty on their fans, ensuring long-term peace of mind.
For detailed warranty information, technical support, or to register your product, please visit the official NZXT support website:

NZXT Official Support

When contacting support, please have your product model number (RF-U36HF-B1) and proof of purchase readily available.

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