

NZXT CC-H51FB-01

NZXT H5 Flow Compact ATX Mid-Tower PC Gaming Case

Model: CC-H51FB-01

Brand: NZXT

1. INTRODUCTION

The NZXT H5 Flow is a compact ATX mid-tower PC gaming case designed for optimal thermal performance and intuitive cable management. It features a perforated front panel to enhance airflow, making it an ideal chassis for various PC builds. This manual provides essential information for setting up, operating, and maintaining your NZXT H5 Flow case.

Key Features:

- **High-Performance Airflow:** Perforated front and top panels direct filtered air through the case to cool down components and enhance performance.
- **Dedicated GPU Fan:** An angled 120mm fan draws air from below the case to provide direct cooling for your power-hungry graphics card.
- **Spacious Cooling Support:** Supports up to 280mm radiator in the front, 240mm up top, and 120mm in the rear. Includes two pre-installed 120mm fans.
- **Ready for Performance:** Fits most NVIDIA GeForce RTX 40 Series graphics cards with 365mm max GPU clearance. Vertical GPU Mounting Kit sold separately.
- **Easy Cable Management:** Features wide cable channels with hooks, bridges, and straps for organized cable routing.

2. SETUP AND INSTALLATION

The NZXT H5 Flow is designed for a smooth assembly process, allowing for easy access to internal components.

2.1. Accessing Internal Components

The case features easily removable panels for convenient installation and maintenance.



Figure 2.1: Overall view of the NZXT H5 Flow PC case, showcasing its sleek black design and tempered glass side panel.



NZXT H5 FLOW

Compact mid-tower ATX case featuring a perforated front panel and dedicated GPU fan for high airflow and powerful cooling performance.

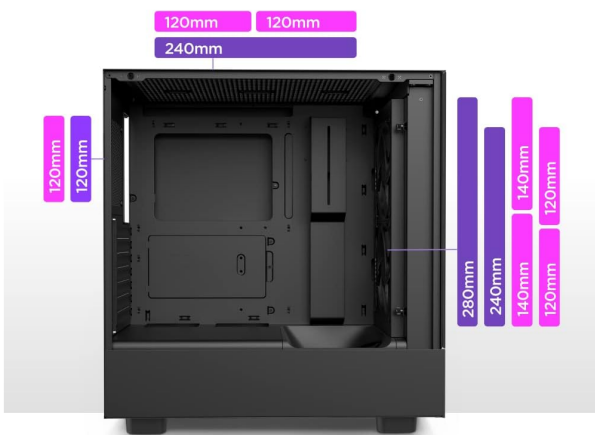
Figure 2.2: The tempered glass side panel can be easily removed to access the internal components for installation or upgrades.



DEDICATED GPU FAN

An angled 120mm fan draws air from below the case to provide direct cooling for your power-hungry graphics card.

Figure 2.3: The top mesh vent cover is removable, allowing for easy cleaning of dust filters and access to top-mounted fans or radiators.



SPACIOUS COOLING SUPPORT

Up to 280mm radiator support in the front, 240mm up top, and 120mm in the rear. Fits up to 6 fans including the dedicated GPU fan.

Figure 2.4: The perforated front panel can also be removed, providing full access to the front fan mounts for installation or maintenance.

2.2. Cable Management

The H5 Flow offers wide cable channels, hooks, bridges, and straps to simplify cable routing and maintain a clean interior.



EASILY MANAGE CABLES

Wide cable channels with hooks, bridges, and straps take the guesswork out of organized cable management.

Figure 2.5: The rear side of the motherboard tray features dedicated channels and straps for efficient cable management, ensuring a tidy build.

2.3. Component Compatibility

Ensure your components fit within the case's dimensions for optimal performance and assembly.

- **GPU Clearance:** Supports graphics cards up to 365mm in length.
- **Radiator Support:** Up to 280mm in the front, 240mm on top, and 120mm in the rear.
- **Storage:** 2.5" SSD Support: 1+1, 3.5" HDD Support: 1.
- **CPU Cooler Height:** Maximum 165mm.



READY FOR PERFORMANCE

Fits most NVIDIA GeForce RTX 40 Series graphics cards with its 365mm clearance. Display your GPU vertically using the NZXT Vertical GPU Mounting Kit.*

*Sold separately. Reduces clearance to 349mm.

Figure 2.6: The case provides ample space for modern graphics cards, with an option for vertical mounting (kit sold separately).



COMPONENT COMPATIBILITY

- 2.5" SSD Support: 1+1
- 3.5" HDD Support: 1
- Expansion Slots: 7
- CPU Cooler: Max 165mm

Figure 2.7: A diagram illustrating the various fan and radiator mounting points and their supported sizes within the case.

3. OPERATING THE PC CASE

The NZXT H5 Flow is engineered for superior thermal performance to keep your components cool during operation.

3.1. Airflow Design

The case's design prioritizes airflow to ensure efficient cooling.



HIGH-PERFORMANCE AIRFLOW

Perforated front and top panels direct filtered air through the case to cool down components and enhance overall performance.

Figure 3.1: Illustration of the high-performance airflow design, with air entering through perforated front and top panels and exiting efficiently.

3.2. Dedicated GPU Cooling

A unique angled 120mm fan is positioned to provide direct cooling to your graphics card, reducing GPU temperatures during intensive tasks.



DEDICATED GPU FAN

An angled 120mm fan draws air from below the case to provide direct cooling for your power-hungry graphics card.

Figure 3.2: A close-up view of the dedicated 120mm fan strategically placed to cool the graphics card directly.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your PC case.

4.1. Cleaning Dust Filters

The NZXT H5 Flow features easily removable dust filters on the top and bottom to prevent dust buildup inside the case. Regularly remove and clean these filters using compressed air or a soft brush.

4.2. Fan Inspection

Periodically inspect all case fans for dust accumulation and ensure they are spinning freely. Clean as necessary to maintain efficient airflow.

5. TROUBLESHOOTING

If you encounter any issues with your NZXT H5 Flow PC case, consider the following common troubleshooting steps:

- **Poor Airflow:** Ensure all dust filters are clean and fans are operating correctly. Verify fan orientation for proper intake and exhaust.
- **Component Fit Issues:** Double-check component dimensions against the case specifications (Section 2.3) to ensure compatibility.
- **Cable Management:** Disorganized cables can impede airflow. Re-route cables using the provided channels and straps to improve internal organization.

For more detailed troubleshooting or persistent issues, please refer to the official NZXT support resources or contact their customer service.

6. SPECIFICATIONS

Feature	Detail
Brand	NZXT
Model Name	CC-H51FB-01
Case Type	Mid Tower
Color	Black
Material	Metal
Item Weight	15.45 pounds
Product Dimensions (LxWxH)	17.56 x 8.94 x 18.27 inches
Motherboard Compatibility	E-ATX (Up To 277 mm Wide)
Number of USB 2.0 Ports	1
Number of USB 3.0 Ports	2
Cooling Method	Air
Recommended Uses	Gaming

7. WARRANTY AND SUPPORT

For detailed warranty information, please visit the official NZXT website. You can also find additional support resources, FAQs, and contact information for customer service there.

Official NZXT Website: www.nzxt.com

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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