NZXT PHAN-001BK

NZXT PHANTOM ATX Full Tower Case User Manual

Model: PHAN-001BK | Brand: NZXT

1. Introduction

The NZXT Phantom Full Tower Chassis is engineered for enthusiasts seeking high performance, extensive cooling capabilities, and a distinctive design. This manual provides essential information for the proper installation, operation, and maintenance of your Phantom case, ensuring a reliable and efficient computing experience. Designed with sleek contours, the Phantom offers superior airflow management, flexible component compatibility, and user-friendly features for system builders.

2. Key Features

- **High Performance Cooling Advantages:** Supports up to 7 fan cooling options, including dual 200mm, single side 230/200mm, triple 120mm, and front 140mm fans. Four fans are pre-installed.
- **Integrated Fan Controller:** Features a built-in fan controller with five channels, each providing 20W of power for precise airflow customization.
- **Convenient Liquid Cooling Support:** Includes four specialized cutouts for easy liquid cooling management and dual radiator support up to 240mm.
- **Simple Installation:** Innovative 5.25” screwless rail system for optical drives and 3.5” drive bays with snap-out holders for effortless HDD installation. Rubber grommets dampen vibration.
- **Easy Cable Management:** Provides up to 22mm of clearance behind the motherboard tray for efficient cable routing, improving internal airflow and aesthetics.
- **Extensive Compatibility:** Supports larger heat sinks (up to 150/180mm), graphics cards (350mm VGA clearance), and E-ATX motherboards, accommodating a wide range of high-end components.
- **Additional Advanced Features:** Includes an LED on/off button for fan lighting, rubber PSU and case feet to reduce vibration, easily removable front and top panels, and top-mounted USB, E-SATA, audio, and microphone jacks.

3. Setup and Installation

Before beginning installation, ensure you have all necessary components and tools. Refer to your motherboard and component manuals for specific installation instructions.

3.1 Preparing the Case

1. Place the case on a stable, flat surface.
2. Remove the side panels by unscrewing the thumbscrews at the rear and sliding the panels backward.

3.2 Motherboard Installation

1. Install the I/O shield into the rear opening of the case.
2. Align the motherboard with the standoffs inside the case. Ensure all standoffs are correctly positioned for your motherboard's form factor (ATX, E-ATX, etc.).
3. Secure the motherboard using the provided screws.

3.3 Drive Installation

The Phantom features screwless installation for 5.25" and 3.5" drives.

- **5.25" Bays (Optical Drives, Fan Controllers):** Push the screwless latch to unlock, slide the drive into the bay until it clicks into place, then release the latch to secure.
- **3.5" Bays (HDDs/SSDs):** Pull out a drive tray. Mount your 3.5" HDD directly into the tray without screws, or use screws for 2.5" SSDs. Slide the tray back into the bay until it locks.



Figure 3.3.1: Interior view of the NZXT Phantom case, demonstrating component layout and spacious design.

3.4 Power Supply Installation

1. Position the power supply unit (PSU) at the bottom rear of the case, ensuring the fan faces downwards for optimal cooling (if the case has a bottom vent).
2. Secure the PSU with screws from the rear of the case.

3.5 Cable Management

Utilize the ample space behind the motherboard tray and the various cable routing cutouts to neatly organize all power and data cables. This improves airflow and gives your build a clean appearance.

4. Operating Instructions

4.1 Integrated Fan Controller

The NZXT Phantom features a top-mounted fan controller with five individual channels. Each channel can control a fan or multiple fans (up to 20W per channel). Use the sliders to adjust fan speeds and optimize cooling performance

and noise levels.



Figure 4.1.1: Top panel of the NZXT Phantom, showing the integrated fan controller.

4.2 LED Control

An LED on/off button is located on the top panel, allowing you to toggle the internal fan lighting (if applicable) or other case LEDs.

4.3 Front I/O Ports

The top panel provides convenient access to:

- USB 2.0 Ports (x2)
- USB 3.0 Port (x1)
- E-SATA Port (x1)
- Audio Jacks (Headphone and Microphone)

5. Maintenance

Regular maintenance helps ensure optimal performance and longevity of your NZXT Phantom case and its components.

- **Dust Cleaning:** Periodically clean dust from the case interior, fans, and dust filters (located on intake fans and under the PSU). Use compressed air or a soft brush.
- **Fan Inspection:** Check fans for any obstructions or unusual noises. Ensure fan blades are clean and spinning freely.
- **Cable Check:** Occasionally verify that all internal cables are securely connected and not obstructing airflow.



Figure 5.1.1: Side panel of the NZXT Phantom, illustrating ventilation areas for maintenance.

6. Troubleshooting

This section addresses common issues you might encounter with your NZXT Phantom case.

- **No Power/System Not Booting:**
  Check: Ensure all power cables (24-pin ATX, CPU, GPU, SATA) are securely connected to the motherboard, components, and power supply. Verify the PSU switch is in the 'ON' position.

- **Fans Not Spinning:**
  Check: Confirm fans are properly connected to the motherboard headers or the integrated fan controller. Ensure the fan controller sliders are not set to minimum.
- **Excessive Noise:**
  Check: Identify the source of the noise. It could be loose cables, vibrating components, or fans operating at high RPMs. Adjust fan controller settings or secure loose parts.
- **Front Panel Ports Not Working:**
  Check: Ensure the front panel connectors (USB, Audio, E-SATA) are correctly plugged into the corresponding headers on your motherboard.
- **Component Fitment Issues:**
  Check: Refer to the specifications for maximum clearances (e.g., GPU length, CPU cooler height). Ensure components are installed correctly and not obstructing each other.

7. Technical Specifications

Attribute	Value
Brand	NZXT
Model Number	PHAN-001BK
Series	PHANTOM
Colour	Black
Case Type	Full Tower
Motherboard Compatibility	Extended ATX, ATX, Micro-ATX, ITX
Item Dimensions (LxWxH)	62.5 x 22.1 x 54.2 Centimeters
Item Height	21.35 Inches
Item Width	8.7 Inches
Item Weight	10 kg
5.25" Drive Bays	5 (External)
3.5" Drive Bays	7 (Internal)
Expansion Slots	7
Front I/O Ports	2x USB 2.0, 1x USB 3.0, 1x E-SATA, Audio In/Out
Fan Support (Included)	1x 200mm (Top), 2x 120mm (Side), 1x 120mm (Rear)
Fan Support (Optional)	1x 200mm (Top), 1x 200mm (Side), 1x 140mm (Front)
Radiator Support	Dual 240mm (Top)
VGA Clearance	350mm

Attribute	Value
CPU Cooler Clearance	150/180mm
Cable Management Clearance	22mm

8. Warranty and Support

The NZXT Phantom ATX Full Tower Case typically comes with a**1-Year Warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.
For technical support, troubleshooting assistance, or to inquire about warranty services, please visit the official NZXT support website or contact their customer service department. You can find more information and resources at the NZXT Store on Amazon or their official brand website.

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