Cooler Master NR200PV2-WCNN-S00

Cooler Master NR200P V2 White Mini-ITX PC Case User Manual

Model: NR200PV2-WCNN-S00

1. Product Overview

The Cooler Master NR200P V2 White Mini-ITX PC Case is designed for high-performance small form factor builds. It offers extensive support for liquid cooling systems and large GPUs, ensuring optimal thermal management and component compatibility within a compact footprint. This case features versatile panel options, including tempered glass and ventilated steel, and tool-free access for simplified installation and maintenance.

Image: The Cooler Master NR200P V2 White Mini-ITX PC Case, showcasing its compact design and removable tempered glass side panel.

Key Features:

- **Compact ITX Design:** 18.25L footprint, exclusively accommodating Mini-ITX motherboards.
- **Vertical GPU Mounting:** Supports high-end GPUs up to 357mm, including RTX 5080 | RX 9070 XT, bundled with a PCIe 4.0 riser cable.
- **Easy, Tool-Free Access:** Quick-release pins and removable GPU back panel for streamlined installation.
- **Advanced Cooling Support:** Ready for top-mounted 240/280mm radiators for maximum thermal efficiency. 525mm tubing is recommended for clean front routing.
- **SFF SFX PSU Support:** Compact design supports SFX power supplies up to 130mm in length.
- **Versatile Panel Options:** Choose between a Tempered Glass panel to display components or a Vented Steel panel for optimal airflow.
- **Integrated USB Type-C:** Convenient USB Type-C port on the I/O panel.

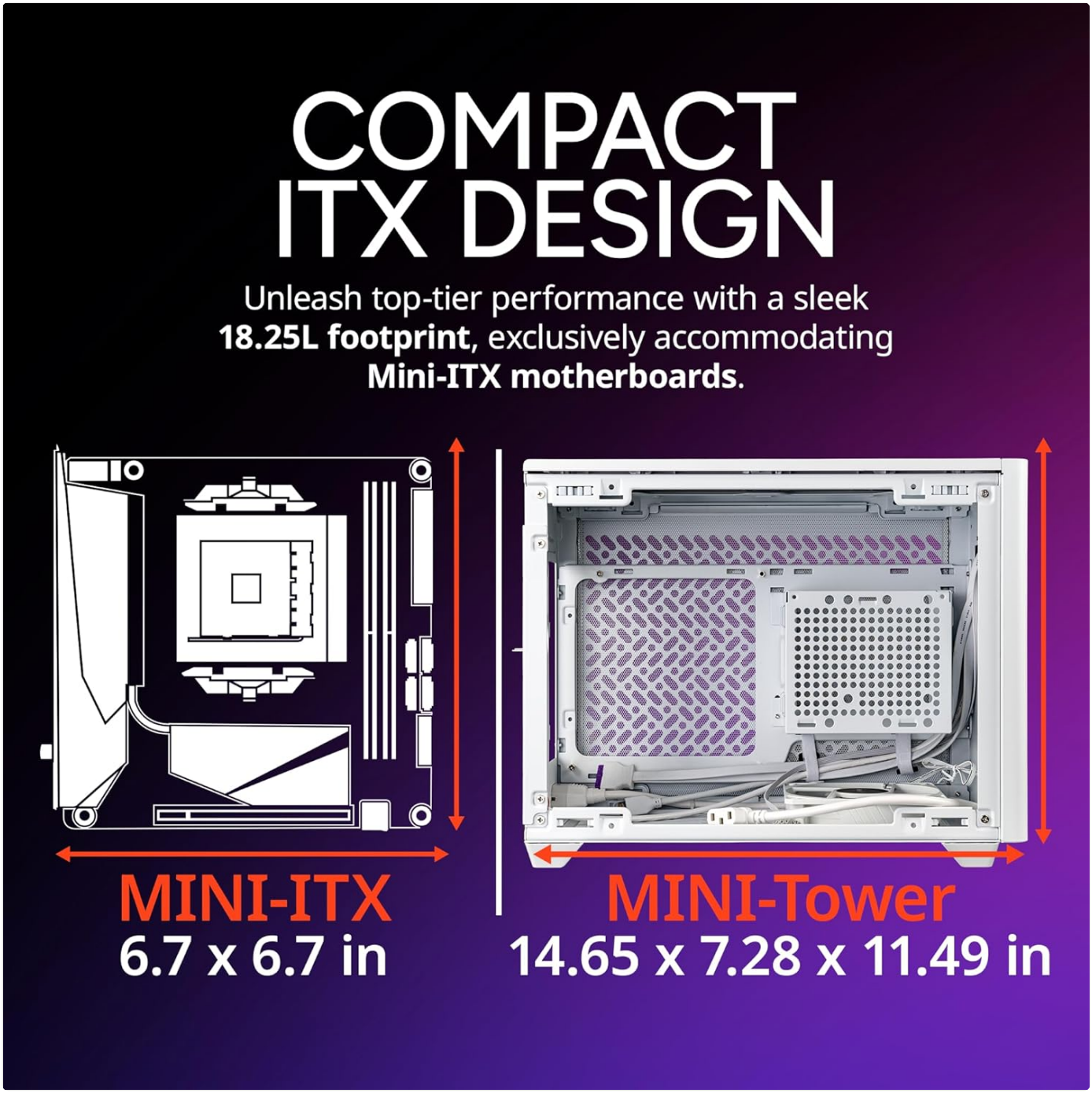

Image: A visual comparison illustrating the compact size of the Mini-ITX form factor (6.7 x 6.7 inches) compared to a Mini-Tower (14.65 x 7.28 x 11.49 inches), highlighting the efficient use of space in the NR200P V2.

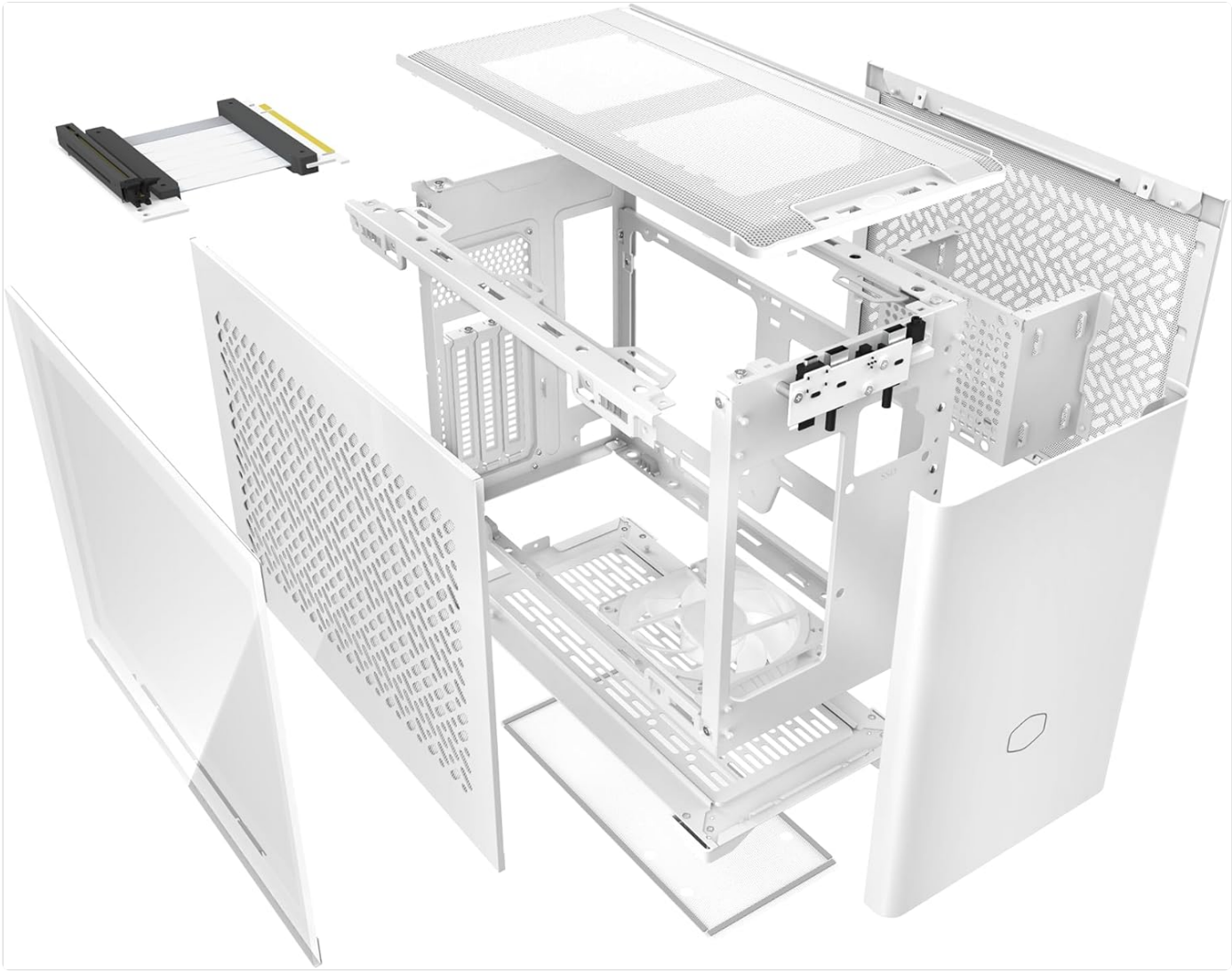

Image: An exploded diagram showing all the individual components of the Cooler Master NR200P V2 case, including panels, frame, and internal brackets, illustrating its modular design.

2. Setup and Installation

Proper installation of components is crucial for optimal performance and longevity of your system. The NR200P V2 is designed for ease of assembly, but careful attention to detail is recommended.

2.1 Preparing the Case

1. Unpack the case and all accessories.
2. Remove the side panels by gently pulling them away from the chassis. The tempered glass panel can be removed by lifting it upwards from its bottom clips. The vented steel panel uses quick-release pins.
3. Identify the various mounting points for the motherboard, power supply, and storage drives.

Image: The Cooler Master NR200P V2 case with both side panels removed, revealing the internal structure and component mounting areas.

2.2 Motherboard Installation

1. Install the I/O shield (if applicable) into the rear opening of the case.
2. Align your Mini-ITX motherboard with the standoffs inside the case.
3. Secure the motherboard using the provided screws.

2.3 Power Supply Unit (PSU) Installation

The NR200P V2 supports SFX power supplies up to 130mm in length.

1. Mount the SFX PSU to the designated bracket.
2. Secure the PSU bracket to the case using the appropriate screws.
3. Route the necessary power cables through the cable management cutouts.

Image: A diagram illustrating the compact size of an SFX power supply (130mm) and its compatibility with the NR200P V2 case.

2.4 Graphics Card (GPU) Installation

The case supports vertical GPU mounting for cards up to 357mm in length and 3.5 slots thick. A PCIe 4.0 riser cable is included.

1. Attach the GPU to the PCIe riser cable.
2. Secure the GPU and riser cable assembly to the vertical mounting bracket.
3. The GPU back panel is removable to streamline this process.

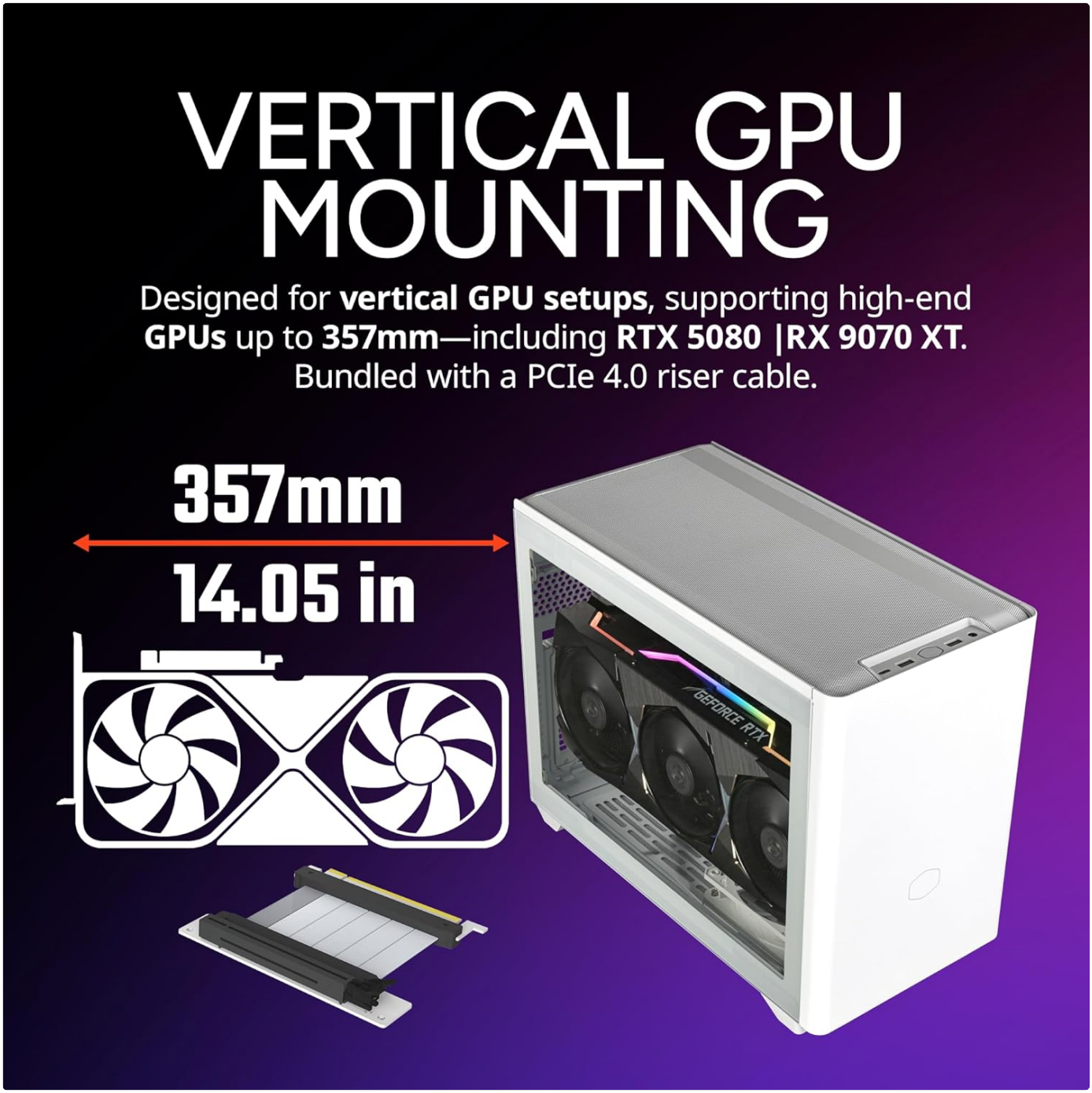

Image: A visual representation of a large graphics card (up to 357mm) mounted vertically within the Cooler Master NR200P V2 case, along with the included PCIe 4.0 riser cable.

Image: A detailed view of the PCIe 4.0 riser cable installed within the NR200P V2, ready for vertical GPU mounting.

Image: An illustration demonstrating the tool-free removal of the GPU back panel, simplifying the installation process for graphics cards.

2.5 Cooling System Installation

The NR200P V2 supports various cooling configurations, including top-mounted radiators.

- **Radiator Support:** Top-mounted 240mm or 280mm radiators are supported. For optimal routing, 525mm tubing is recommended.
- **Fan Installation:** Install additional fans as needed for improved airflow. The case supports a 120mm bottom-mounted fan for enhanced vertical airflow.

Image: A diagram illustrating the compatibility of the NR200P V2 with top-mounted 240mm and 280mm liquid coolers, highlighting the space available for radiators.

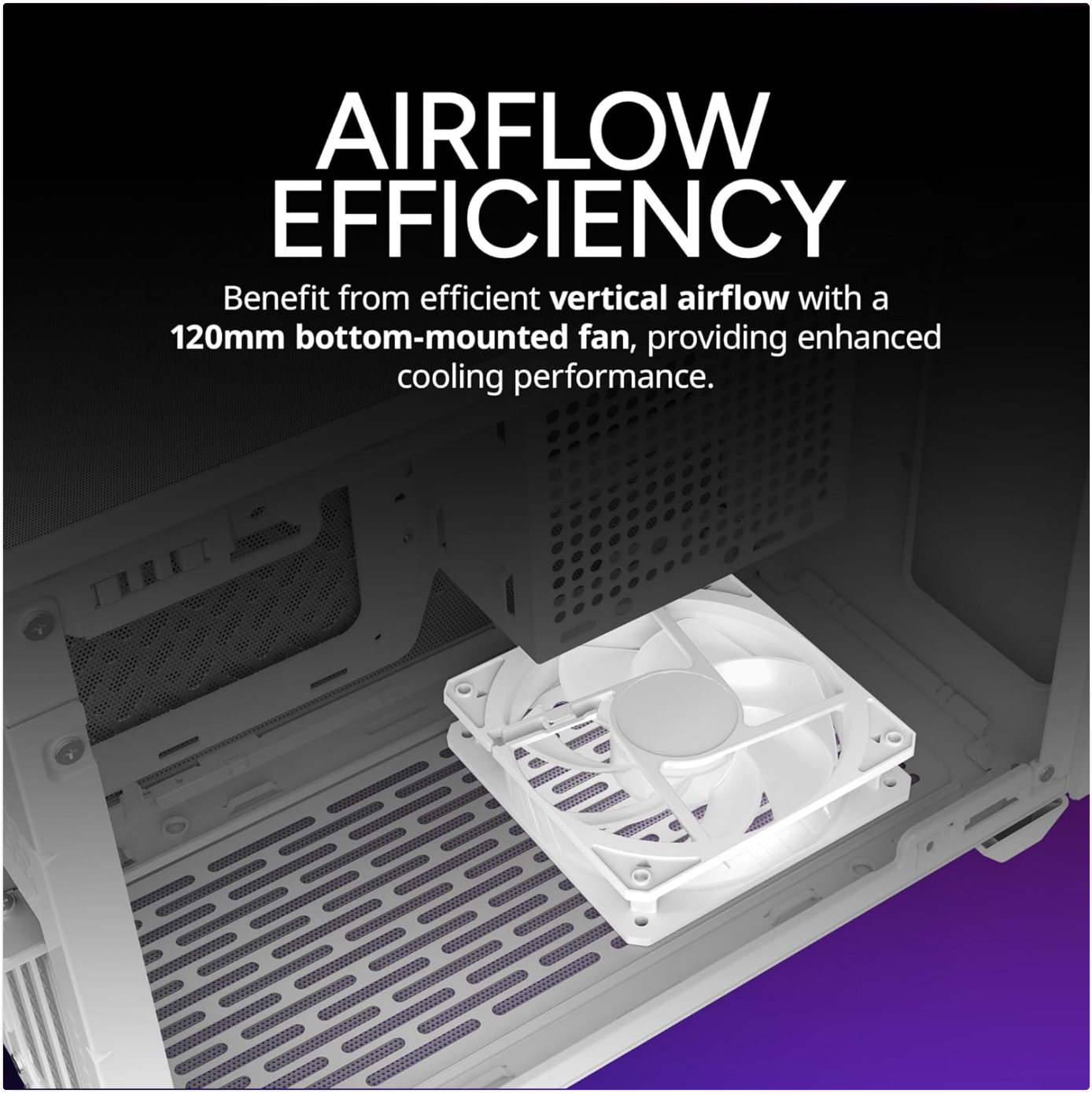

Image: An internal view of the NR200P V2 case, showing the placement of a 120mm bottom-mounted fan designed to improve vertical airflow efficiency.

2.6 Final Assembly

1. Connect all necessary cables (front panel I/O, power, data).
2. Manage cables neatly to ensure optimal airflow and aesthetics.
3. Reattach the side panels. Choose between the Tempered Glass panel for visual display or the Vented Steel panel for enhanced airflow.

Image: The Cooler Master NR200P V2 case shown with both its Tempered Glass side panel (left) and Vented Steel side panel (right), allowing users to choose based on preference for aesthetics or airflow.

3. Operating Your PC Case

Once your system is assembled, the NR200P V2 provides a robust enclosure for your components. Proper operation primarily involves ensuring adequate airflow and utilizing the front I/O ports.

3.1 Airflow and Cooling

The NR200P V2 is designed with large ventilation patterns to ensure efficient cooling. Ensure that fans are configured for optimal intake and exhaust to maintain low temperatures for your components.

3.2 Front I/O Panel

The front I/O panel provides convenient access to essential ports:

- **USB Type-C Port:** For high-speed data transfer and device connectivity.

- **USB 3.0 Ports:** For standard USB device connectivity.
- **Audio Jacks:** For headphones and microphones.
- **Power Button:** To turn your system on/off.

Image: A close-up view of the NR200P V2's top I/O panel, highlighting the integrated USB Type-C port for modern connectivity.

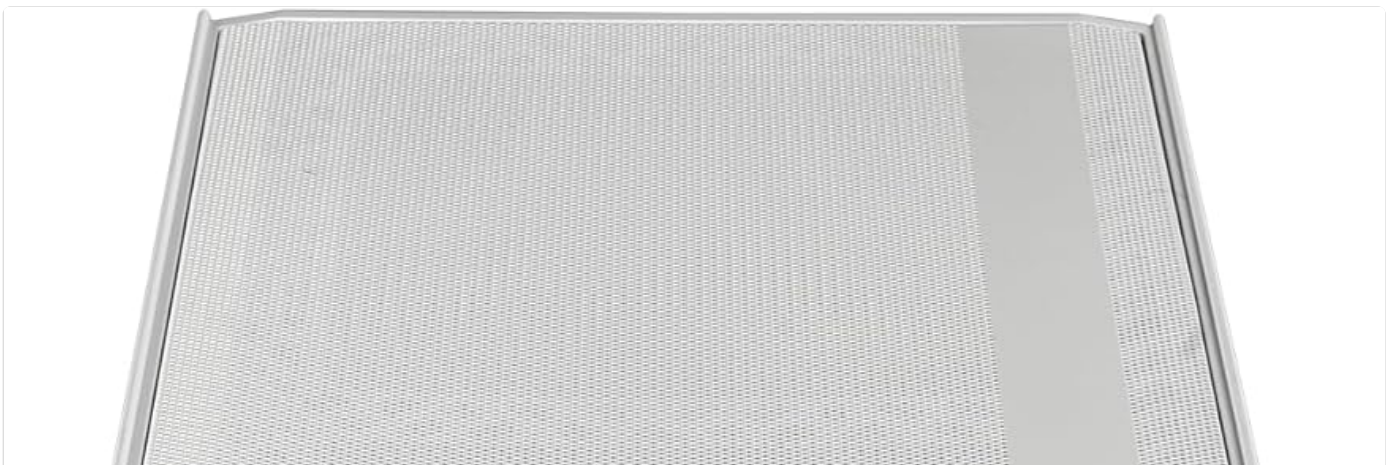

Image: A top-down perspective of the Cooler Master NR200P V2, showcasing the ventilated top panel and the accessible front I/O ports.

4. Maintenance

Regular maintenance helps preserve the performance and appearance of your PC case.

- **Dust Filters:** The NR200P V2 includes magnetic dust filters. Regularly remove and clean these filters to prevent dust buildup and maintain optimal airflow.
- **Exterior Cleaning:** Use a soft, damp cloth to wipe down the exterior surfaces. Avoid abrasive cleaners.
- **Internal Dusting:** Periodically open the case and use compressed air to remove dust from internal components and fan blades. Ensure the system is powered off and unplugged before performing internal cleaning.

5. Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
System not powering on.	Loose power connections, faulty power supply, incorrect front panel header connection.	Ensure PSU is switched on and fully plugged into the wall. Verify all internal power cables (24-pin, CPU, GPU) are securely connected. Check front panel header connections on the motherboard, especially the power switch pins.
Poor airflow or high temperatures.	Dust buildup, incorrect fan orientation, obstructed vents, poor cable management.	Clean dust filters and internal components. Ensure fans are oriented correctly (intake/exhaust). Improve cable management to reduce airflow obstruction. Consider switching to the vented steel side panel if using the tempered glass.
Front USB Type-C or USB 3.0 ports not working.	Loose or incorrect internal cable connection to motherboard.	Verify the USB Type-C and USB 3.0 headers are securely connected to the correct ports on your motherboard. Check motherboard manual for correct header locations.

6. Specifications

Feature	Detail
Model Name	NR200P V2 White
Item Model Number	NR200PV2-WCNN-S00
Brand	Cooler Master
Case Type	Mini-ITX Tower
Motherboard Compatibility	Mini ITX
Dimensions (L x W x H)	14.65 x 7.28 x 11.5 inches (372 x 185 x 292 mm)
Volume	18.25 Liters

Feature	Detail
Item Weight	10.85 pounds (4.92 kg)
Color	White
Materials	Steel, Plastic, Tempered Glass
GPU Clearance	Up to 357mm (length), 3.5 slots (thickness)
PSU Support	SFX, SFX-L (up to 130mm length)
Radiator Support (Top)	240mm, 280mm
I/O Panel	1x USB Type-C, 2x USB 3.0, 1x 3.5mm Audio Jack, 1x 3.5mm Mic Jack

Image: An internal view of the Cooler Master NR200P V2, illustrating the spacious layout for components despite its compact size, including mounting points for fans and storage.

Image: The rear view of the Cooler Master NR200P V2, displaying the motherboard I/O cutout, power supply input, and vertical expansion slots for GPU mounting.

7. Warranty and Support

Cooler Master products are manufactured to the highest quality standards. For warranty information, technical support, or to register your product, please visit the official Cooler Master website or contact their customer service.

Official Website: www.coolermaster.com

For further assistance, refer to the contact information provided on the Cooler Master support page.