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## ATX Mid-Tower Computer Case

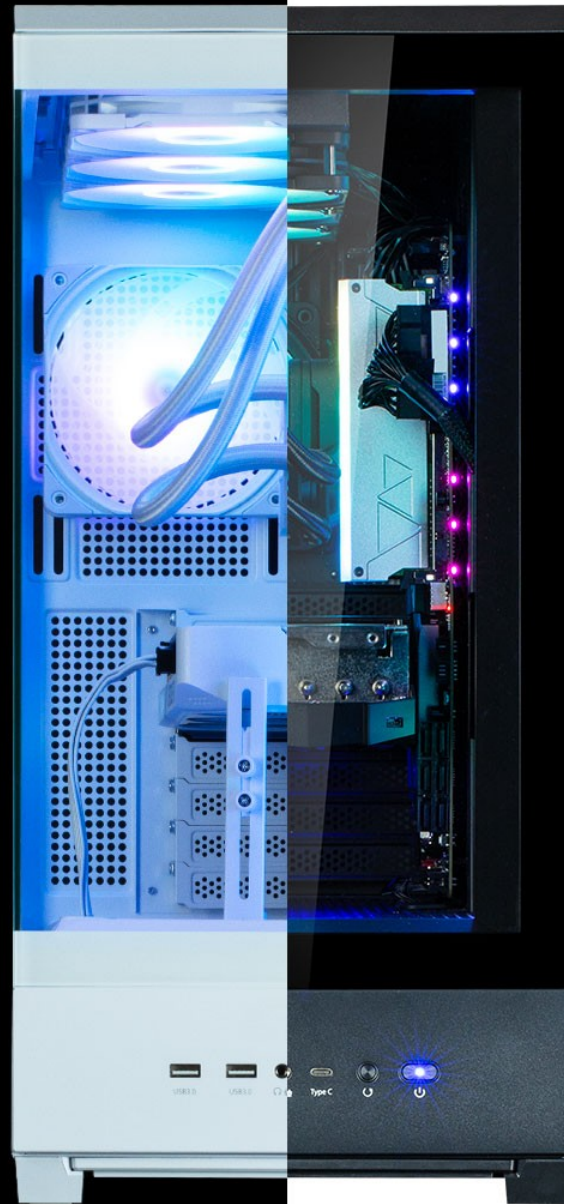
# P50 DS

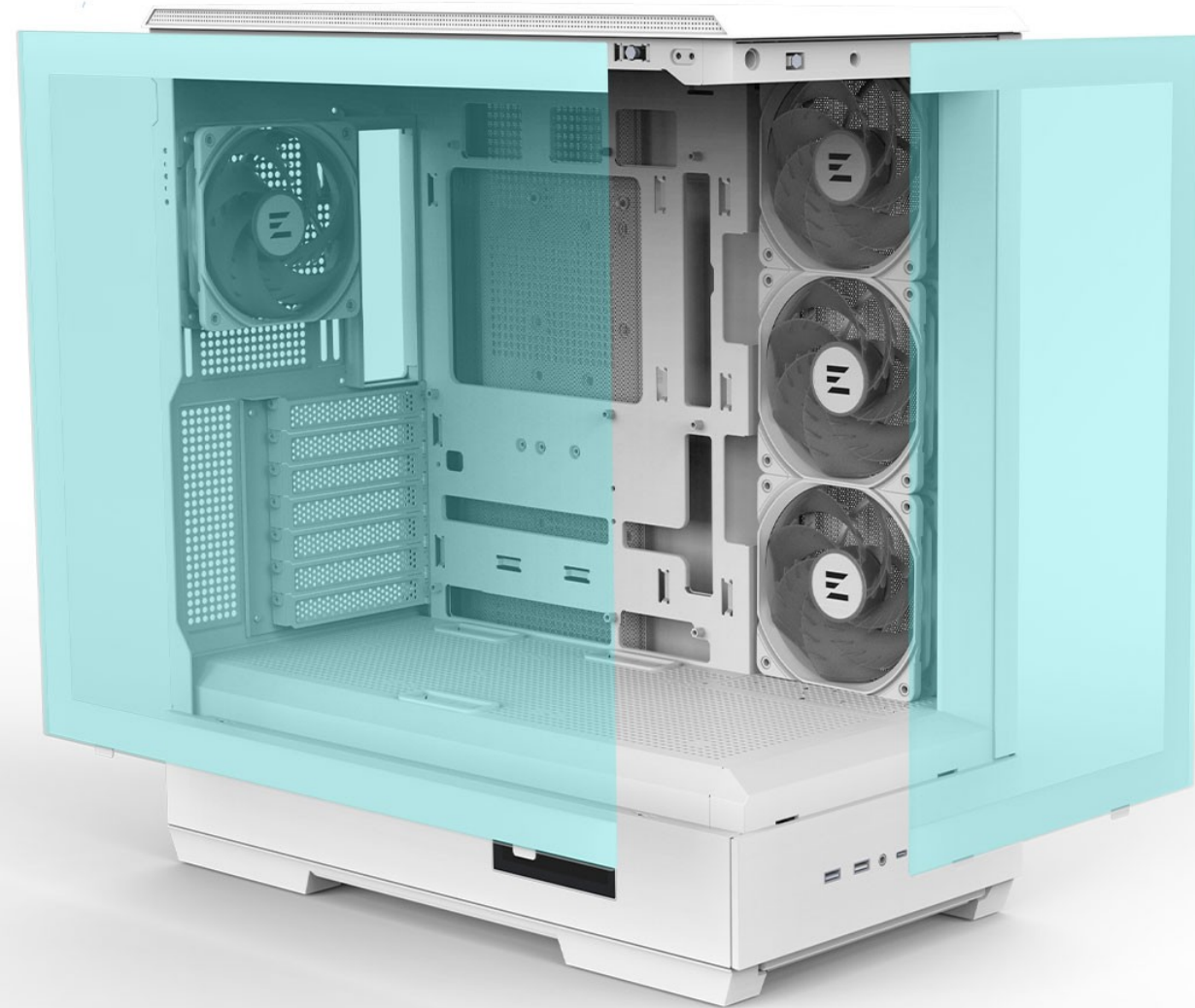
- Panoramic View with Seamless Tempered Glasses (Front/Side)
- Real Time Information Display Screen
- Reverse Layout Motherboard Support
- Rotating PCI Slot According to GPU Installation Direction
- Dedicated Installation Tray for Multiple SSD/HDD Installations
- Zalman AF120 Annular Fans with Shark Fin Blades pre-installed



## Modern and Clean Aesthetic

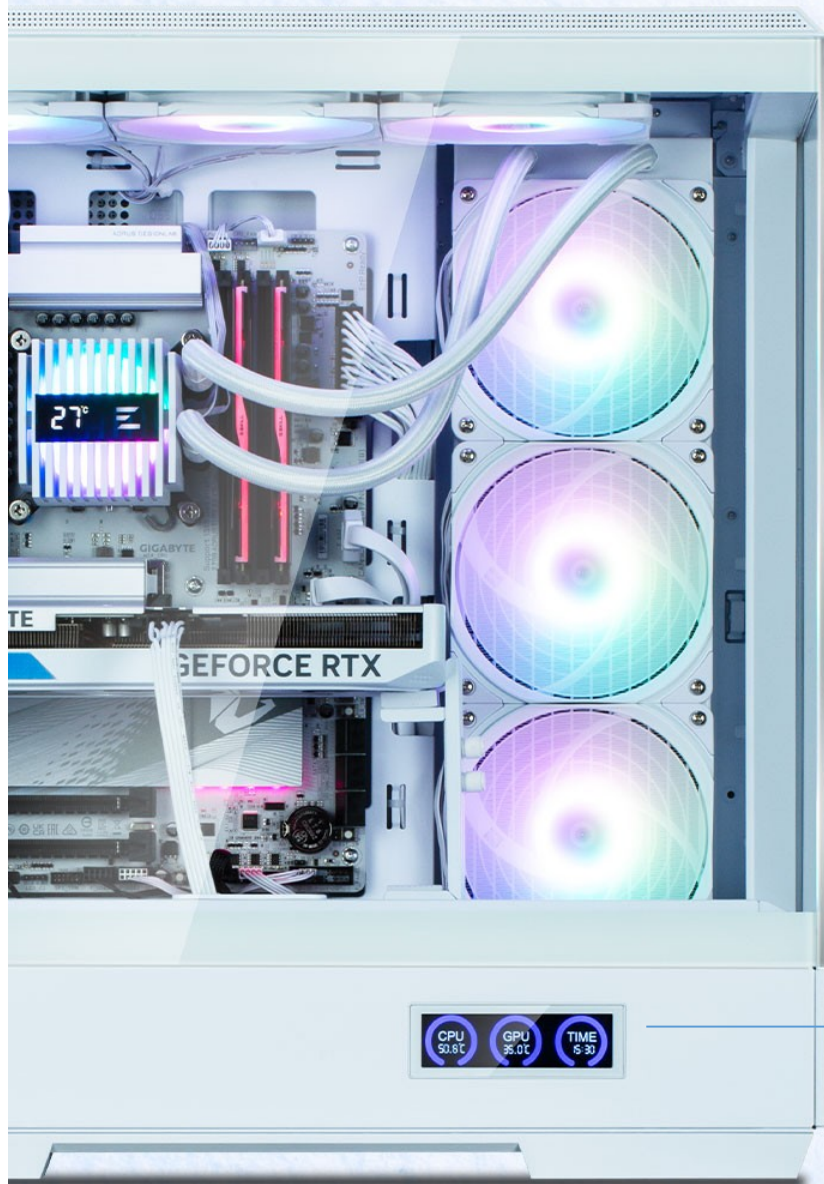
Designed for maximum desk appeal showcasing components





## **Panoramic View with Seamless Tempered Glasses**

Two frameless front and side tempered glasses  
showing unique PC build



## Real-Time Information Display Screen

The built-in screen displays the system's CPU temperature, GPU temperature and time in real time

→ CPU Temp. / GPU Temp. / Time

CPU 50.8C GPU 35.0C TIME 5:30

## Reverse Layout Motherboard Support

All connectors on the underside of the motherboard for clean cable management and a minimalist build appearance

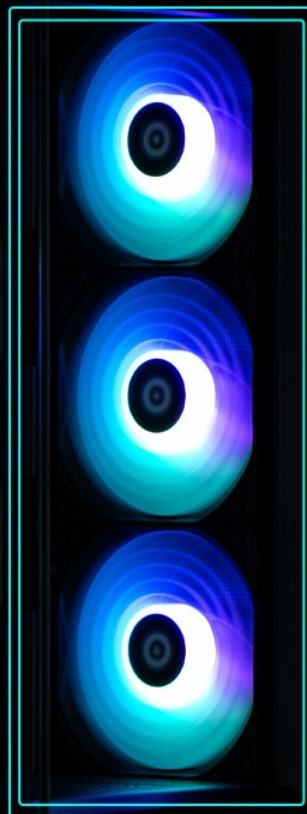
P50 DS is perfect for hidden-connector PCs and makes cable management much easier





## ZM-AF120(Rear)

- Dimensions : 120 x 120 x 26(T)mm
- Rated Voltage : 12V DC (LED: 5V)
- Fan Speed : 600~1,500  $\pm$  10%
- Air Flow : Max. 53.72CFM  $\pm$  10%
- Bearing Type : Hydro Bearing
- Connector : 4-Pin(12V) / LED 3-Pin(5V)



## ZM-AF120 Reverse(Side)

- Dimensions : 120 x 120 x 26(T)mm
- Rated Voltage : 12V DC (LED: 5V)
- Fan Speed : 600~1,500  $\pm$  10%
- Air Flow : Max. 46.6CFM  $\pm$  10%
- Bearing Type : Hydro Bearing
- Connector : 4-Pin(12V) / LED 3-Pin(5V)

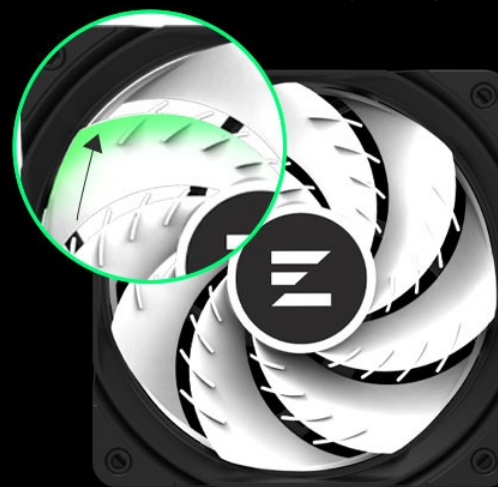
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1. The blade vibration is minimized by preventing the trembling of the blades during fan operation and the durability is enhanced
2. Wind noise is minimized by suppressing the vortex phenomenon that occurs on the blades
3. Airflow is maximized by minimizing the amount of air flow lost to the outer circumference of the rotor

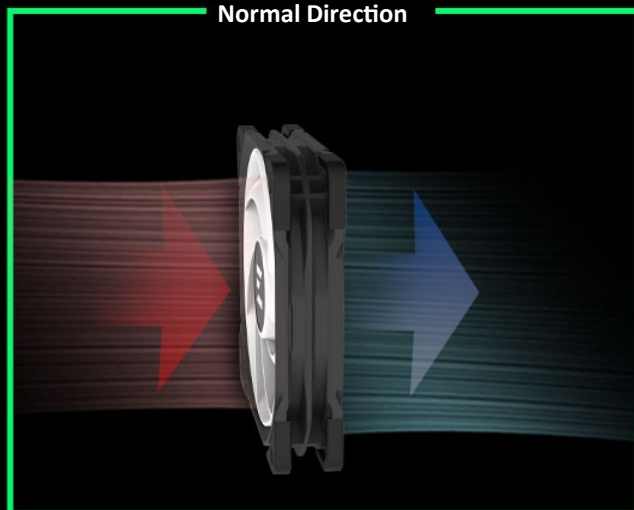
ZM-AF120 ARGB



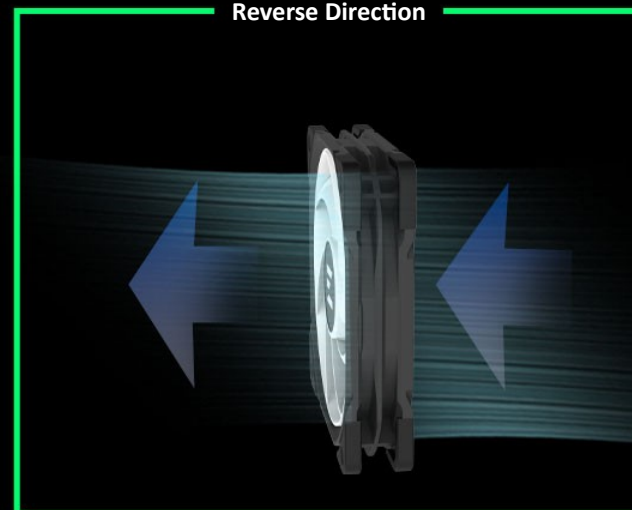
ZM-AF120 ARGB (Reverse)

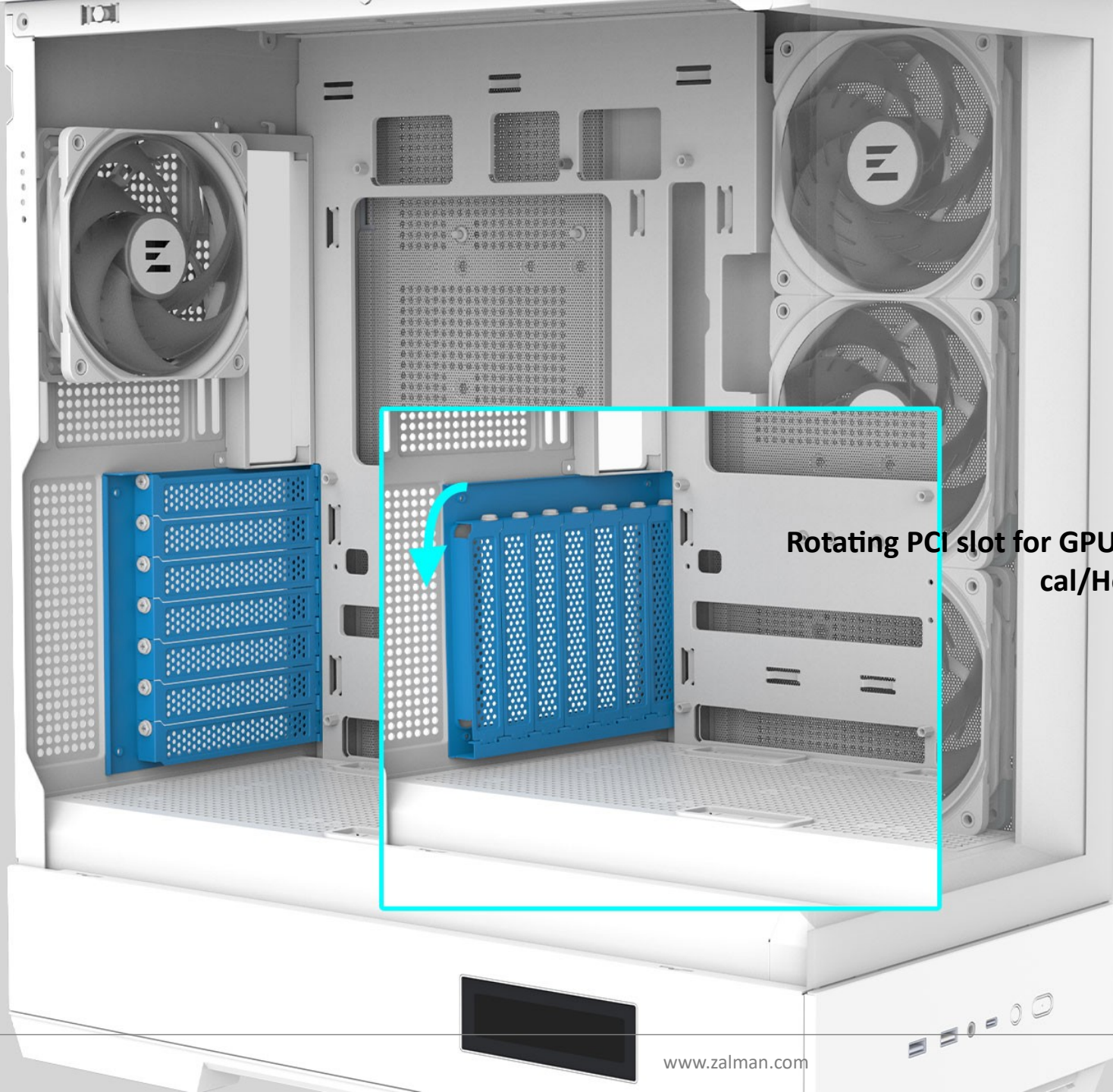


Normal Direction



Reverse Direction





**Rotating PCI slot for GPU installation direction (Vertical/Horizontal)**

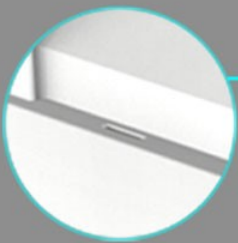




The tool-free ball head -structured front and side tempered glass enhance user's convenience

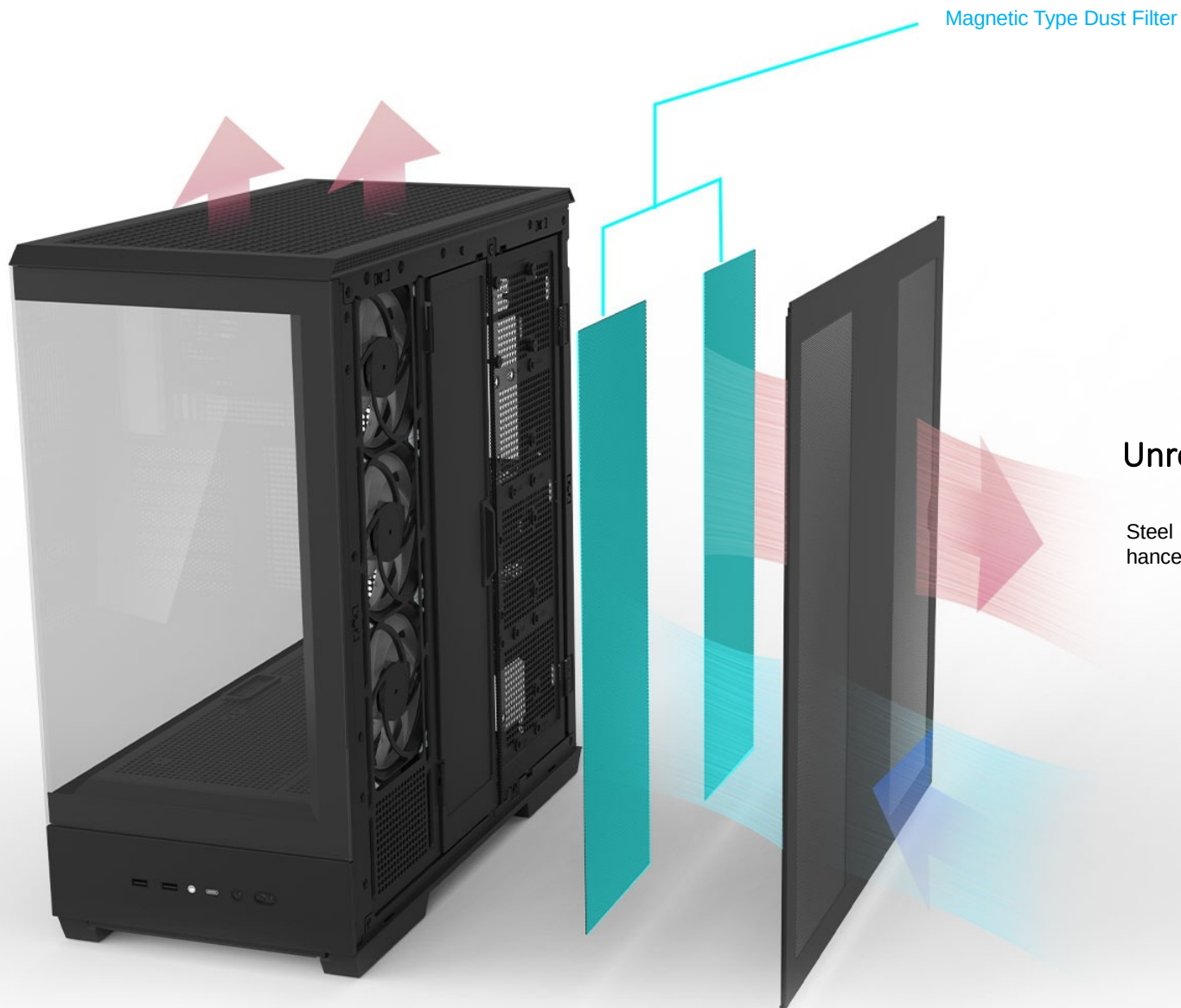
## Tool-Free Tempered Glasses

The front and side panels can be easily and completely removed for convenient access to PC components



Easy panel management with a groove- fixing structure at the bottom of the tempered glass





## Unrestricted Cooling Potential

Steel side panel with two separate air-vents provides enhanced ventilation and additional airflow to system



Tool-free, ball head type dust filter



## Complete Dust Protection

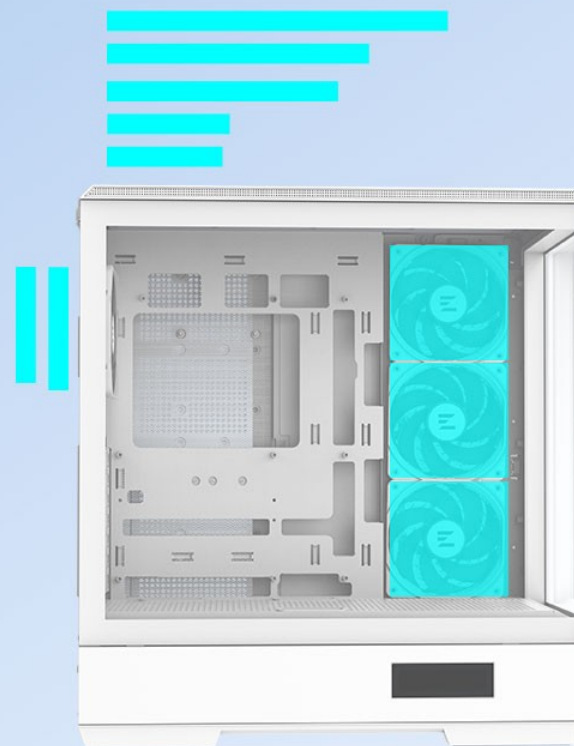
Top and Bottom Dust filters prevent any dust



## Intuitive Cable Management Layout

Convenient cable management layout and space makes it easier than ever to organize messy cables for a clean look





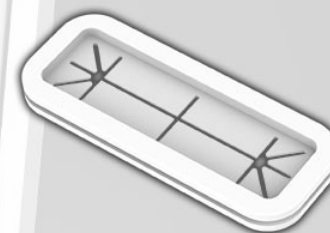
## Radiator Configuration

Side : 120mm / 240mm / 360mm

Top : 120mm / 140mm / 240mm / 280mm / 360mm

Rear : 120mm / 140mm

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## Rubber Grommets for Clean Cable Management

Convenient cable management layout makes it easier than ever to  
organize messy cables for a clean look



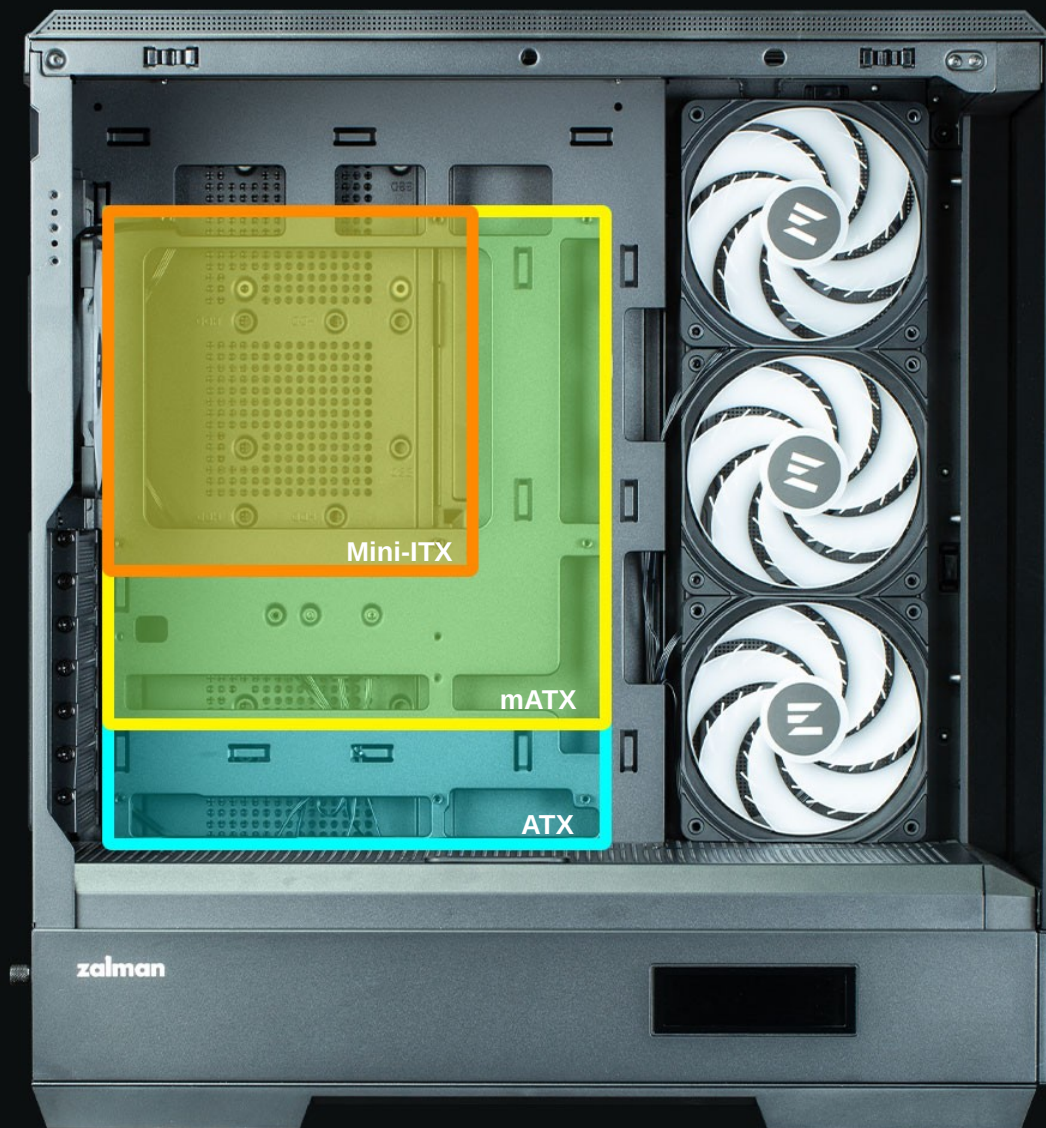
### Easy accessible I/O ports

- Ⓐ USB 3.0
- Ⓑ Microphone / Headphone Jack
- Ⓒ USB Type-C
- Ⓓ Reset Button
- Ⓔ Power Button



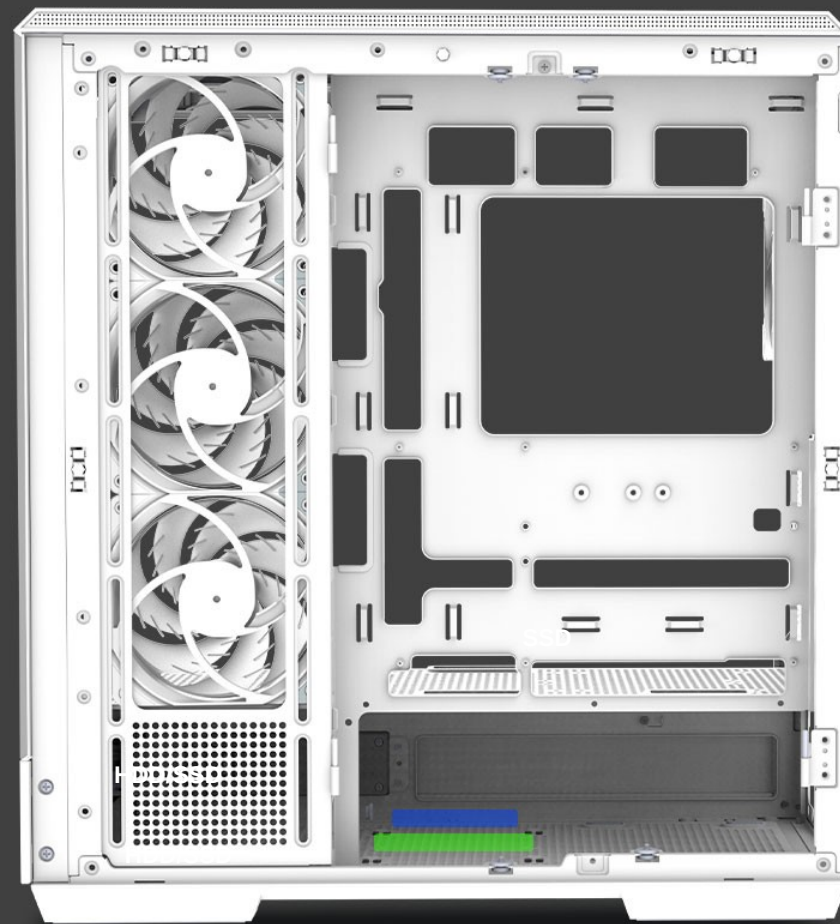
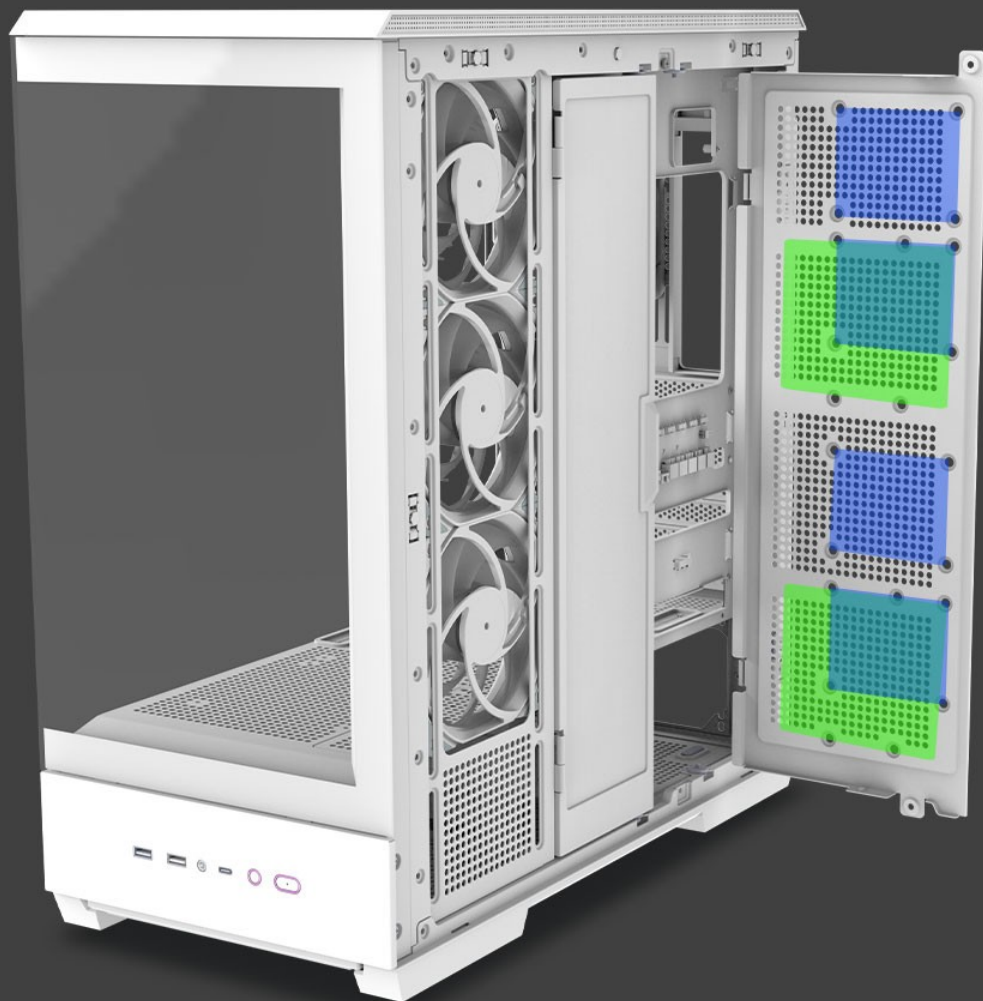
**Dedicated GPU Bracket included**





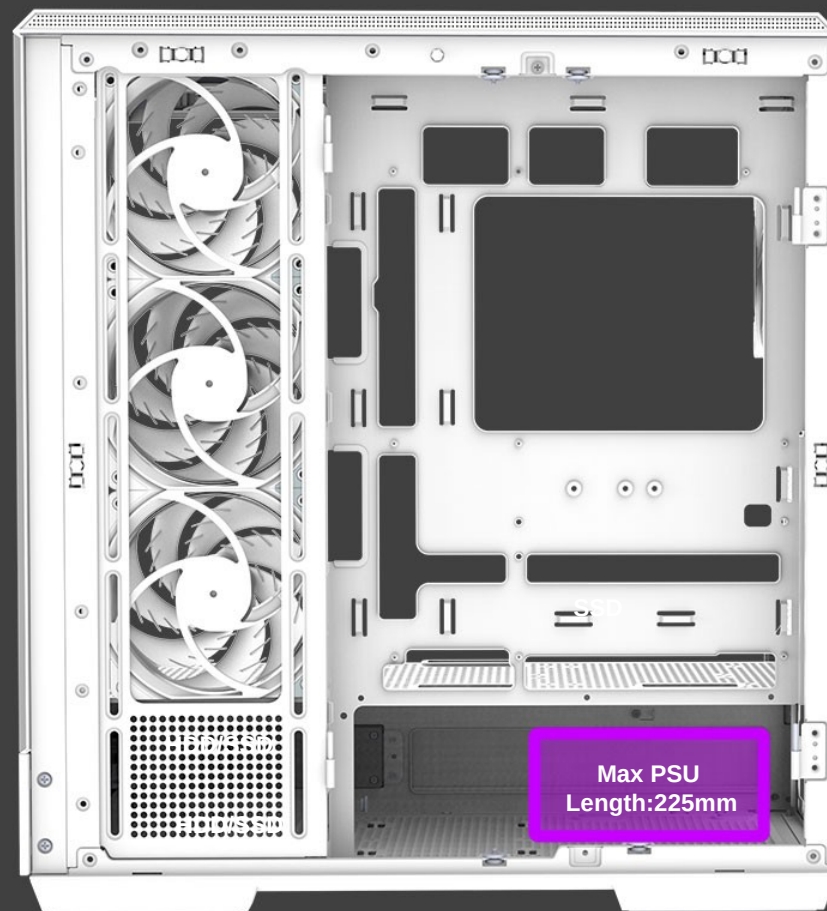
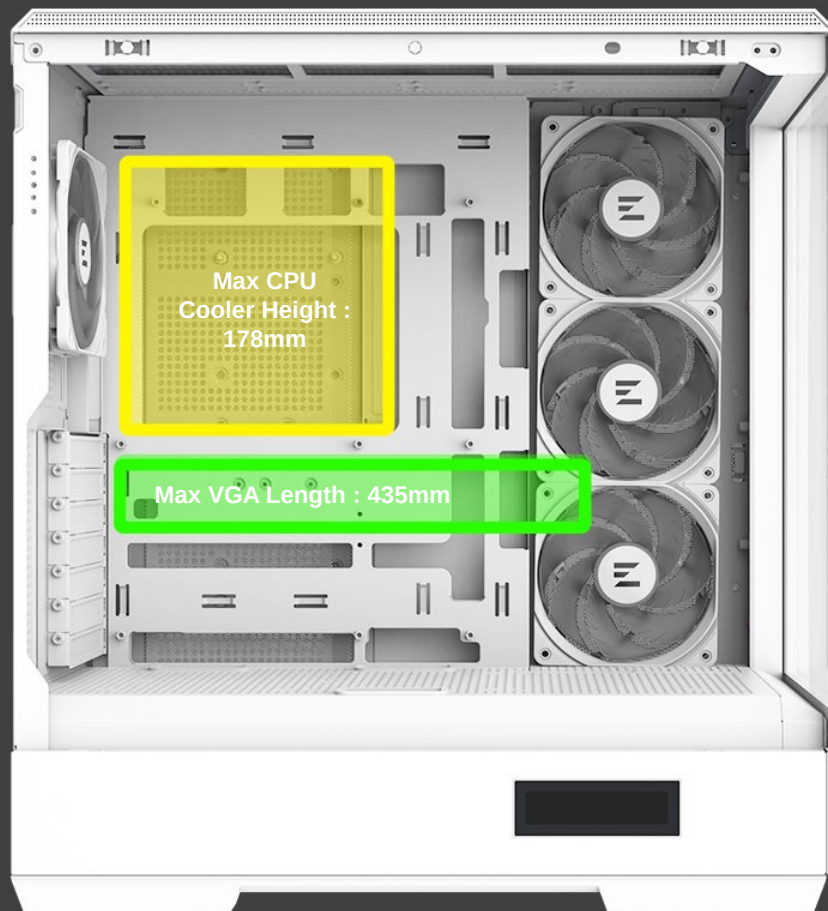
### Motherboard Support

-  Mini-ITX
-  mATX
-  ATX



3 x Combo(3.5" or 2.5"), 2 x 2.5"

## Components Clearance



**Max CPU Cooler Height**

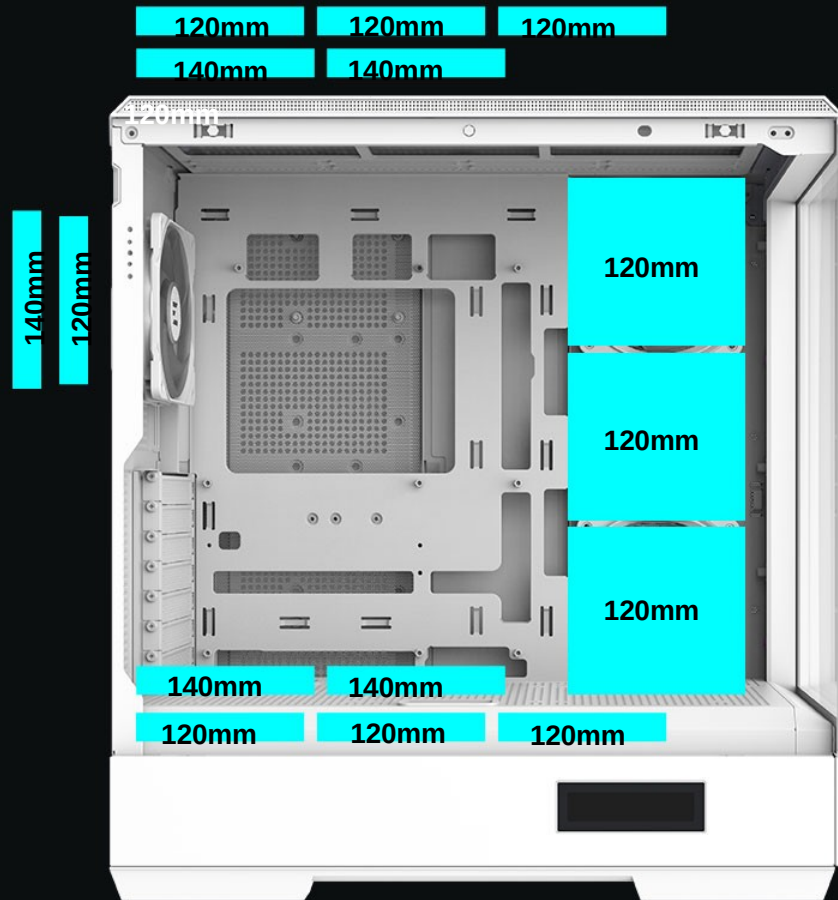
178mm

**Max VGA Card Length**

435mm

**MAX PSU Length**

225mm



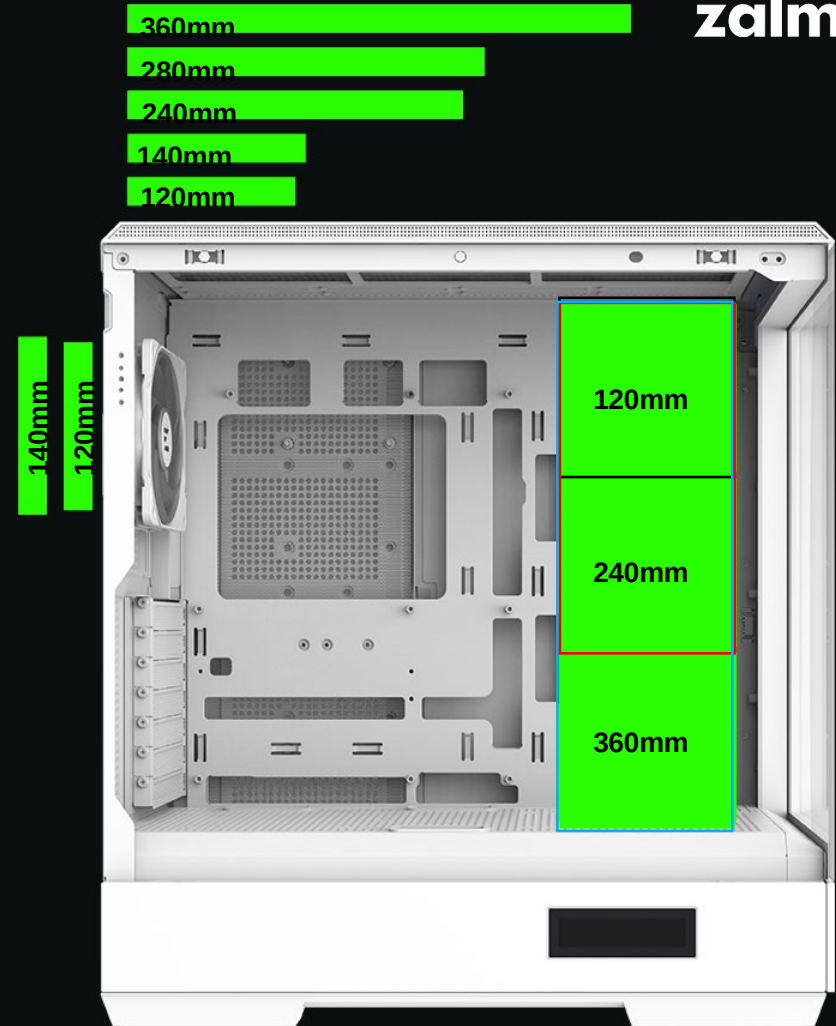
### Fan Support

Top : 3 x 120mm / 2 x 140mm

Side : 3 x 120mm

Rear : 1 x 120mm / 1 x 140mm

Bottom : 3 x 120mm / 2 x 140mm

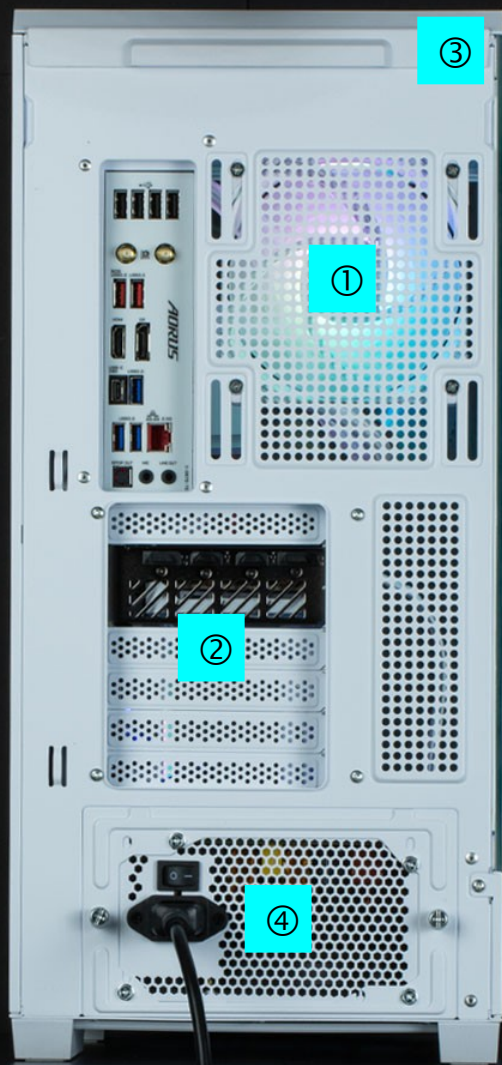


### Radiator Configuration

Top : 120mm / 140mm / 240mm / 280mm / 360mm

Side : 120mm/ 240mm / 360mm

Rear : 120mm / 140mm



## Rear Layout

1. Pre-installed ZM-AF120mm ARGB Fan Slot
2. PCI slots x 7
3. Tool-Free Dust Filter Handle
4. PSU Slot

# Specifications

<b>Model</b> <hr/> <p>P50 DS</p>	<b>Materials</b> <hr/> <p>Steel, Plastic , Tempered Glass</p>	<b>Weight</b> <hr/> <p>10.5kg</p>	<b>Dimensions</b> <hr/> <p>480(D) x 240(W) x 512 (H)mm</p>	<b>Case Form Factor</b> <hr/> <p>ATX Mid-Tower</p>
<b>Motherboard Support</b> <hr/> <p>ATX / mATX / Mini-ITX</p>	<b>Fans Support</b> <hr/> <p><b>Top</b> : 3 x 120mm / 2 x 140mm <b>Side</b> : 3 x 120mm <b>Rear</b> : 1 x 120mm / 1 x 140mm <b>Bottom</b> : 3 x 120mm / 2 x 140mm</p>	<b>Fan(s) Included</b> <hr/> <p><b>Side</b> : 3 x 120mm (ZM-AF120R ARGB Fan) <b>Rear</b> : 1 x 120mm (ZM-AF120 ARGB Fan)</p>	<b>Drive Bays</b> <hr/> <p>2 x Combo(3.5" or 2.5"), 2 x 2.5"</p>	<b>Radiator Support</b> <hr/> <p><b>Top</b> : 120mm / 140mm / 240mm / 280mm / 360mm <b>Side</b> : 120mm / 240mm / 360mm <b>Rear</b> : 120mm / 140mm</p>
<b>Max VGA Length</b> <hr/> <p>435mm</p>	<b>Max CPU Cooler Height</b> <hr/> <p>178mm</p>	<b>Max PSU Length</b> <hr/> <p>225mm</p>	<b>PCI Expansion Slots</b> <hr/> <p>7 pcs</p>	
<b>I/O Ports</b> <hr/> <p>Power, Power LED, Reset, 1 x USB Type-C, HD Audio, 2 x USB 3.0, Monitoring Cable</p>				

