ENTHOO PRO II
SERVER EDITION

PHANTEKS

USER MANUAL V1.0



Thank you

for choosing

PHANTEKS

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Welcome to Phanteks!

The Enthoo Pro 2 has been designed with extreme performance in mind, featuring Phanteks' innovative 'High-Performance Fabric' that sets a new airflow performance standard in the PC enclosure industry. With an extremely spacious and versatile interior design and state-of-the-art features, the Pro 2 is ready to house any high-end configuration. From SSI-EEB motherboards to extreme water cooling to extensive storage capabilities, anything is possible. The Pro 2 Server Edition expands support for more PCIe devices, server grade hardware and direct cooling.

Phanteks believes that meaningful designs are created through the fusion of form and function.

The Phanteks team



CASE SPECIFICATIONS

Dimension (WxDxH)	240 mm x 580 mm x 560 mm (9.45 x 22.83 x 22.05 in)
Form Factor	Full Tower
Materials	Steel chassis, *Tempered glass window***
MB Support	SSI-EEB, ATX, Micro-ATX, Mini-ITX, E-ATX, XL-ATX
Front I/O	Power button, 4x USB 3.0, Microphone, Headphone, Reset Button, USB 3.1 GEN 2 Type-C

PCI SLOTS & DRIVE BAYS

PCI slots	11x	
Internal 3.5"	10x	(4 included)
Internal 2.5"	11x	(11 included)

FAN	120 MM	140 MM
Front	4x	3x
Top	3x	3x
Rear	1x	-
Right Side	4x	-
Left Side	3x	

RADIATOR	120 MM	140 MM
Front	Up to 480	Up to 420
Top	Up to 360	Up to 280
Rear	120	-
Side	Up to 480	-

INCLUDED ACCESSORIES

3.5" Stackable HDD Bracket	4x
Accessory Bag	1x
GPU Anti-Sag Bracket	1x
PSU rubber pad	1x
PSU rubber pad (high)	1x

CLEARANCE

Max Motherboard size	330 x 345 mm 13.0 in(W) x 13.6 in(L)
CPU Cooler Clearance	195 mm (7.7 in)
GPU Clearance	503 mm (19.95 in)

SUPPORT

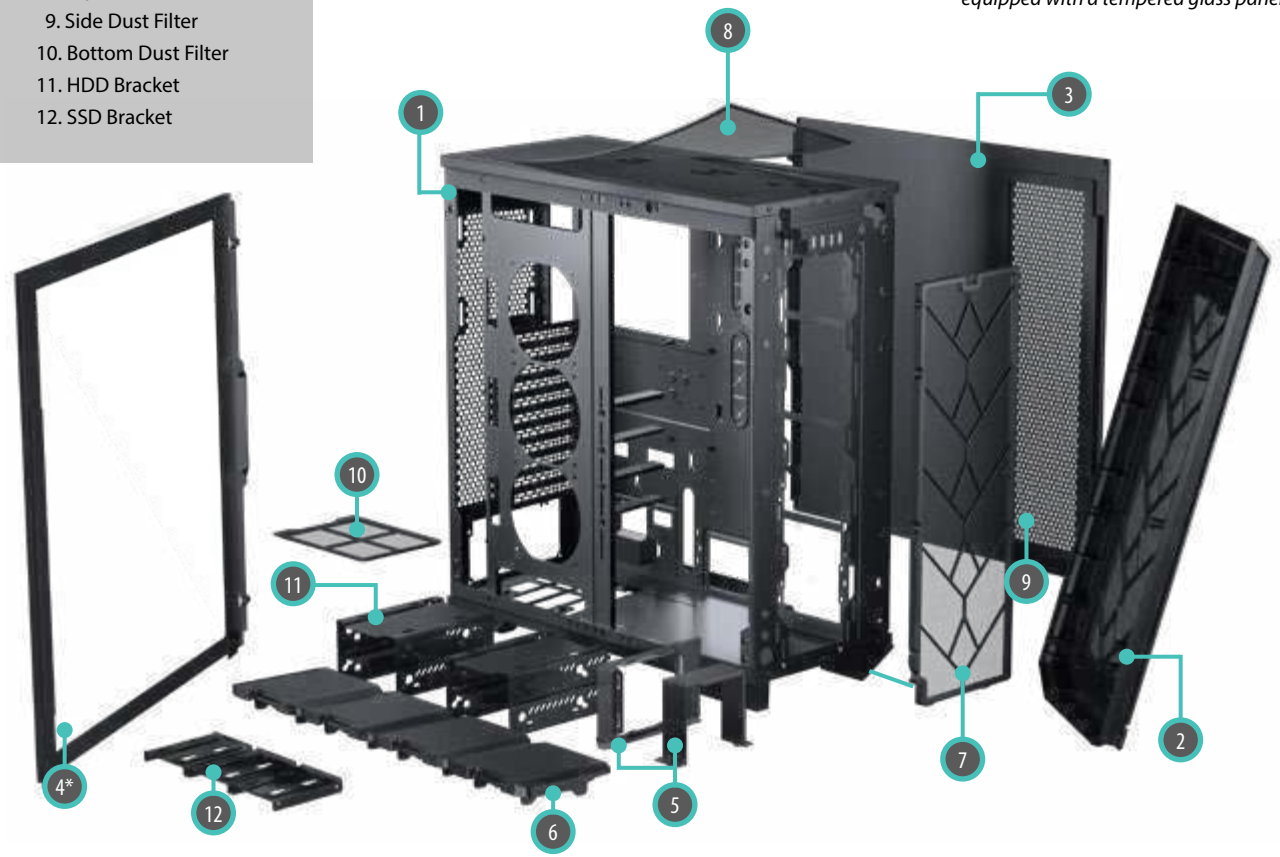
Contact (International)	support@phanteks.com
Contact (America)	support@phanteksusa.com
Warranty	5 Years

*** Only PH-ES620PTG model is equipped with a tempered glass sidepanel*

1. Chassis
2. Front Panel
3. Right Side Panel
4. Left Side Panel*
5. Server PSU Bracket
6. SSD Cover
7. Front Dust Filter
8. Top Dust Filter
9. Side Dust Filter
10. Bottom Dust Filter
11. HDD Bracket
12. SSD Bracket



4 PH-ES620PC_BK version is not equipped with a tempered glass panel*



3.5" MODULAR HDD BRACKET

- 4 included in accessory box
- For 3.5" or 2.5" Drive



SERVER PSU BRACKET

- Included in accessory box
- Riser Cable is sold separately



GPU SUPPORT BRACKET

Supports up to 4 GPU's simultanuously



FAN BRACKET

Supports 3x 120 mm fans



TOOLBOX

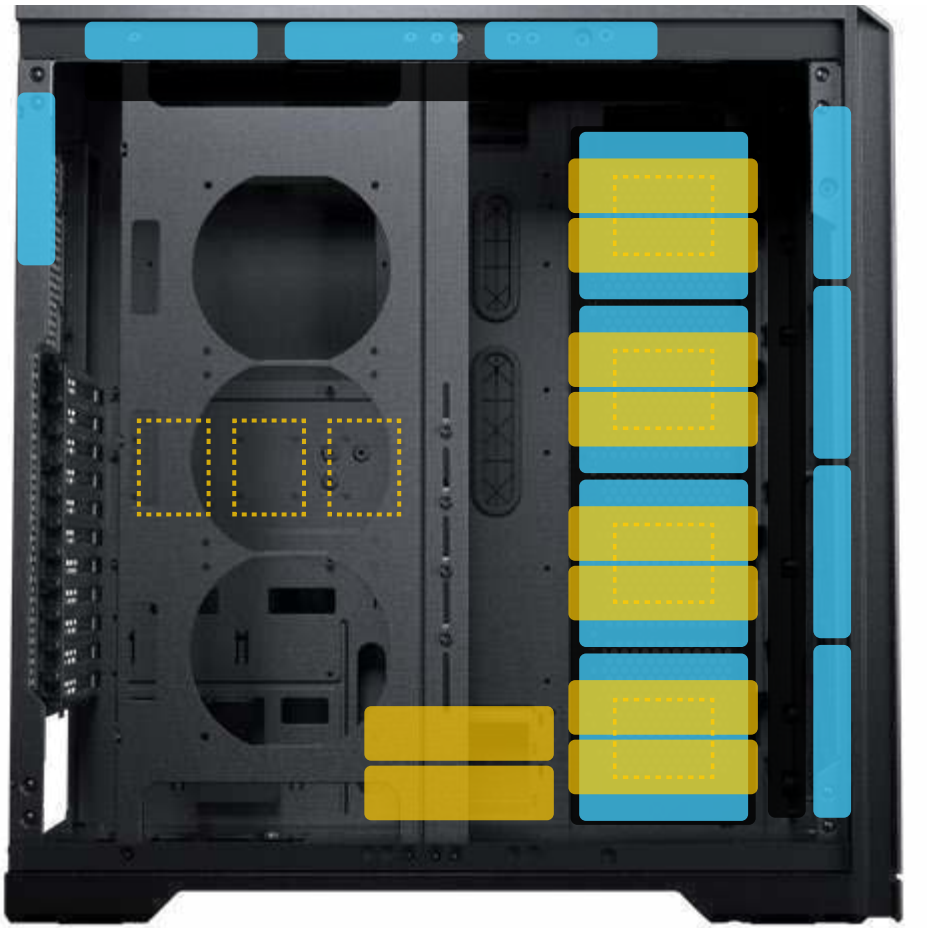
M3x5 mm Motherboard / SSD screw	Fan screw	Motherboard Stand-off + tool
 38x	 8x	 3x  1x
6-32x6 mm Hex screw	6-32x6 mm Thumb screw	6-32x9 mm HDD screw
 7x	 10x	 16x

PSU RUBBER PAD

Rubber pad included to protect your server grade PSU from scratches when installing with the bracket.



The Enthoo Pro 2 has a versatile chassis design, providing you with a myriad of options. With so many possibilities to pick from, you can use this overview to choose and plan the best configuration for your build.



AIR COOLING- P14.

STORAGE - P16.

WATERCOOLING - P19.

PREPARATIONS

- The Enthoo Pro 2 case is designed to support installation in a standing position.
- Don't turn on the power to your system until installation is complete.
- Discharge your body's static electric charge by touching a grounded surface before performing any hardware procedure.
- Make sure to consult the manuals of your hardware before installation.

⚠ If you do not feel comfortable with performing the installation procedure, consult a qualified computer technician.

1. *REMOVING FRONT PANEL*



2. *REMOVING LEFT SIDE PANEL**

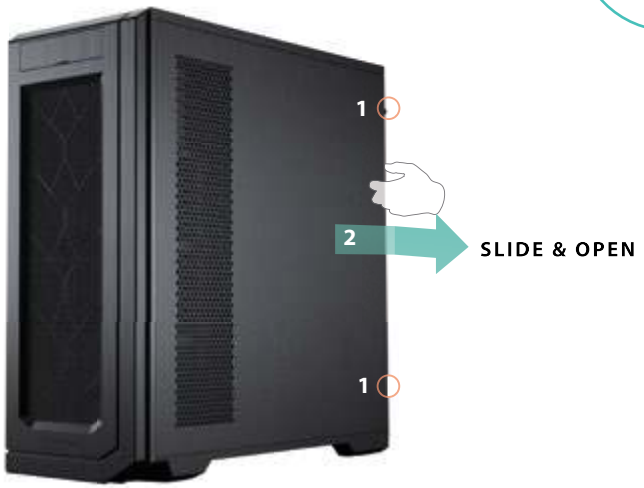


LOOSEN:
2x





3. *REMOVING RIGHT SIDE PANEL*



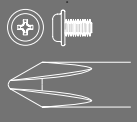
LOOSEN:
2x



** Only PH-ES620PTG model is equipped with a Tempered Glass sidepanel*

Use the motherboard screws from the toolbox to install your motherboard on the pre-installed stand-offs.

REQUIRES:





9x

PRO TIP

These stand-offs have a special collar to keep the motherboard in place when installing vertically.



SUPPORTS

ROG Dominus Extreme

C621 AORUS XTREME

STAND-OFF POSITIONING

ATX / E-ATX Pre-installed

Micro ATX/SSI-EEB/SSI-CEB

Install extra standoffs

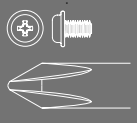
Some motherboards require installation or repositioning of the stand-offs. Please consult your motherboard manual for the correct standoff positioning.



For repositioning standoffs

Install the rubber pad onto the chassis to support the power supply.
Secure the Power Supply with 4x PSU screws.

REQUIRES:

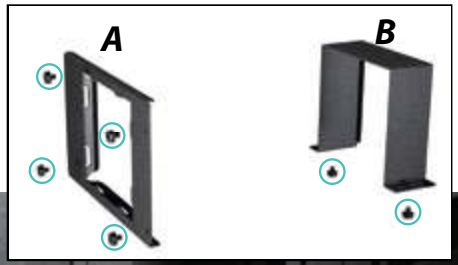




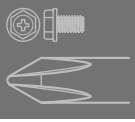
4x

A server-grade power supply can be installed using the included rear bracket (A) and holding bracket (B).

First, install the rear bracket (A) with 4x PSU screws and place the power supply in its position.



REQUIRES:





4x

Secondly, the server-grade power supply is secured with the holding bracket from the bottom with 2x PSU screws.

REQUIRES:



Configure your airflow-path with this overview. Some fan locations allow you to choose between storage or cooling to offer more flexibility.

The left-side fan bracket is removed by removing the 4x screws and lifting it out the chassis.

FRONT

140 FAN 120 FAN

TOP 140 FAN 120 FAN

REAR

120 FAN



SIDE

120 FAN

SIDE

120 FAN



The left-side fan bracket can be installed in a secondary position to pull air from the front of the chassis. Secure the fan bracket with 5x screws as shown.

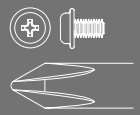
*This position will block the right side fan and HDD positions.



2.5" SSD INSTALLATION

Three SSDs can be installed on the 3x dedicated SSD bracket and two on each of the 4x SSD covers for a total of 11 SSD drives.

REQUIRES:



SSD Cover

One SSD can be installed on the front of the cover with 4x SSD screws:



4x

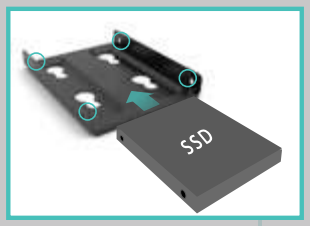


Another SSD can be placed without tools on the rear side of the cover. Press the SSD down on the bottom 2 pins and then place the SSD in the top 2 pins.



SSD Bracket

Install the SSD with 4x SSD screws and place it back on the 4x grommets.



4x





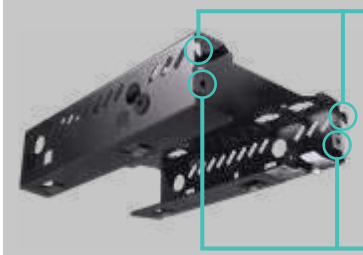
MAIN COMPARTMENT

A total of 10 Stackable HDD brackets can be installed on the side fan positions. Before installation please remove the SSD Covers.

REQUIRES:



PRO TIP Stack 2 HDD brackets before mounting if you install more than 1x bracket.



1. Mount the bracket in the chassis.

2x

2. Secure with 2x thumb screws in the chassis.

left view



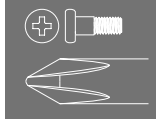
right view



3.5" HDD INSTALLATION

4x Phanteks Stackable 3.5" HDD Brackets are included.
Additional brackets are sold separately (PH-HDDKT_03).

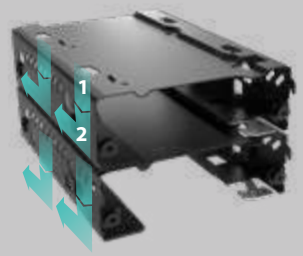
REQUIRES:



HDD INSTALLATION



STACK / INSTALL



REMOVE



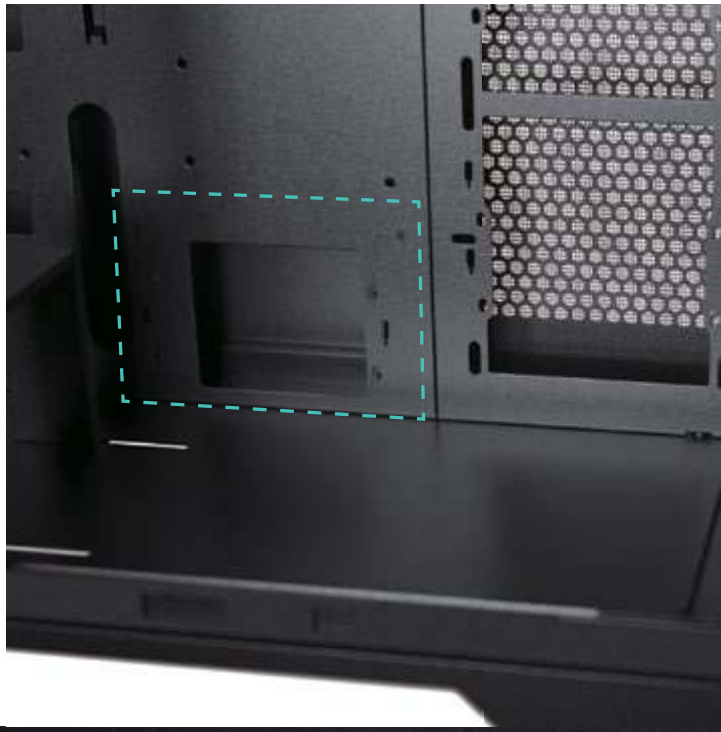
1. LIFT UP LATCH
2. PULL OUT

BOTTOM COMPARTMENT

2x HDD Brackets can be positioned in the bottom compartment.

PRO TIP

The HDD bracket can also house a 2.5" SSD instead of a 3.5" HDD.



This overview shows all possible radiator form-factors, locations and clearances.

TOP

120 FORM FACTOR

max 120x460mm

- 120
- 240
- 360

140 FORM FACTOR

- 140
- 280

*max motherboard component height: 55mm

REAR

120 FORM FACTOR

- 120



SIDE

120 FORM FACTOR

max 135x530x32mm

- 120
- 240
- 360
- 480

FRONT

120 FORM FACTOR

max 145x530mm

- 120
- 240
- 360
- 480

140 FORM FACTOR

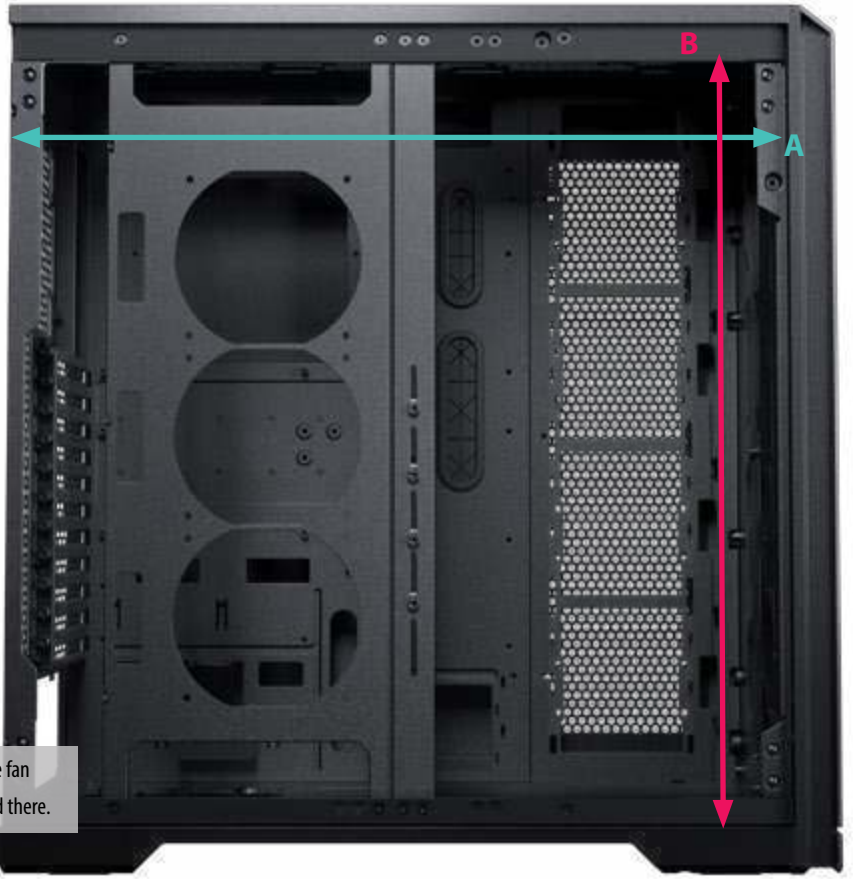
max 145*x530mm

- 140
- 280
- 420

*160mm when SSD Covers rotated

RADIATOR CLEARANCE

Some radiator clearances depend on other hardware installed. Subtracting the radiator and fan thickness shows the remaining clearance for other radiators.



INTERNAL DIMENSIONS:

A :510mm

B :530mm

⚠ If the HDD trays are installed on the side fan locations no front radiator can be placed there.

We highly recommend installing a drain port if you plan to install a custom water-cooling configuration. This will ensure an easy maintenance in the future.

The Drain Port is installed in the Front Panel using a Passthrough Fitting and a Stop Fitting / Ball Valve. The port diameter is 20.5mm.

Phanteks Passthrough fitting:

PH-PTF_BK/CR_G1/4

Phanteks Stop fitting:

PH-PG_BK/CR

Phanteks Ball-Valve fitting:

PH-BVA_BK/CR_G1/4

DRAIN PORT



To prevent your GPU from tipping down you can install the GPU Support Bracket. The bracket is adjustable to provide perfect support for different sized GPU's.

REQUIRES:



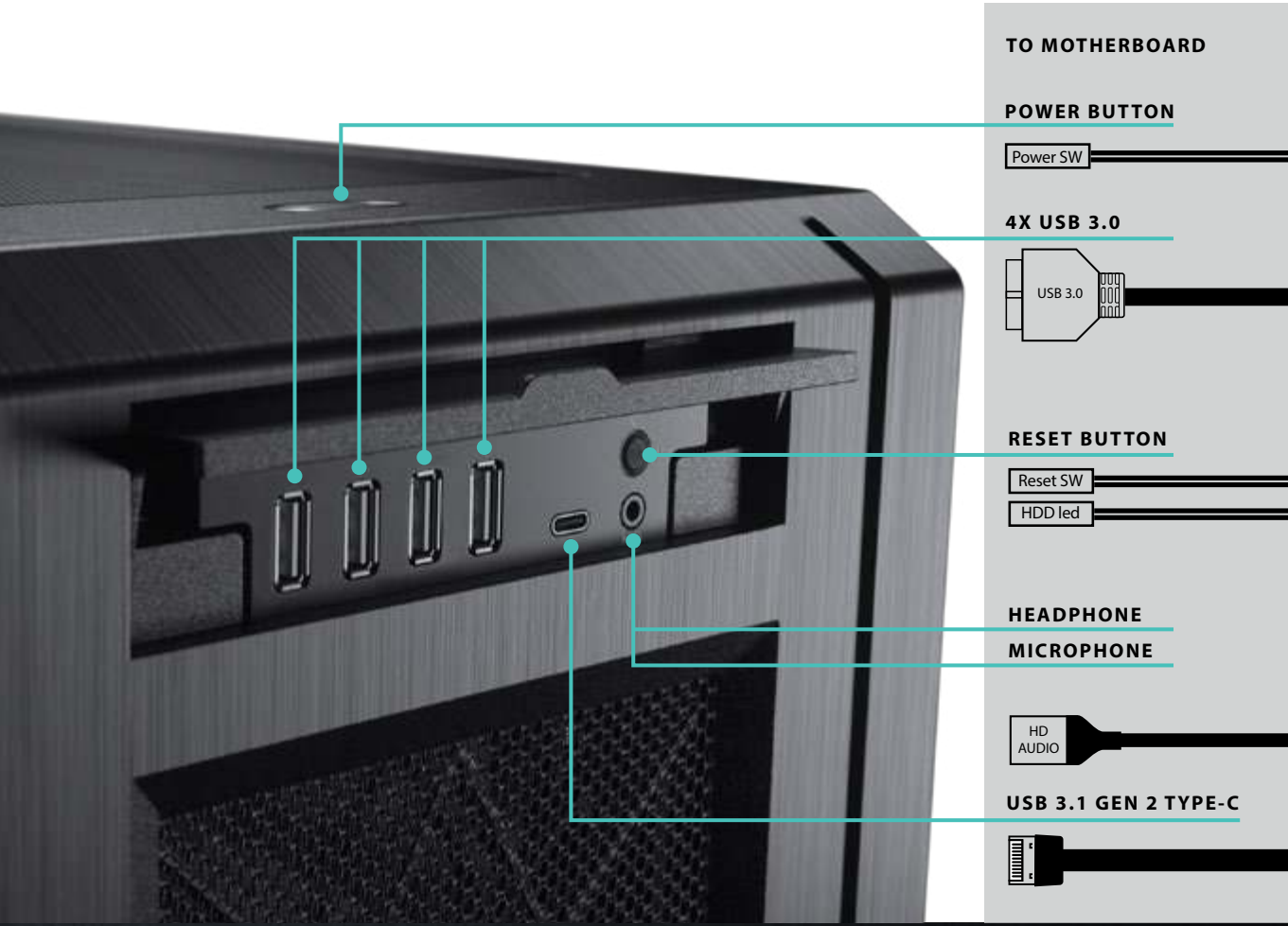
The GPU Support Bracket has 2 available positions if cables are in the way.

PRO TIP

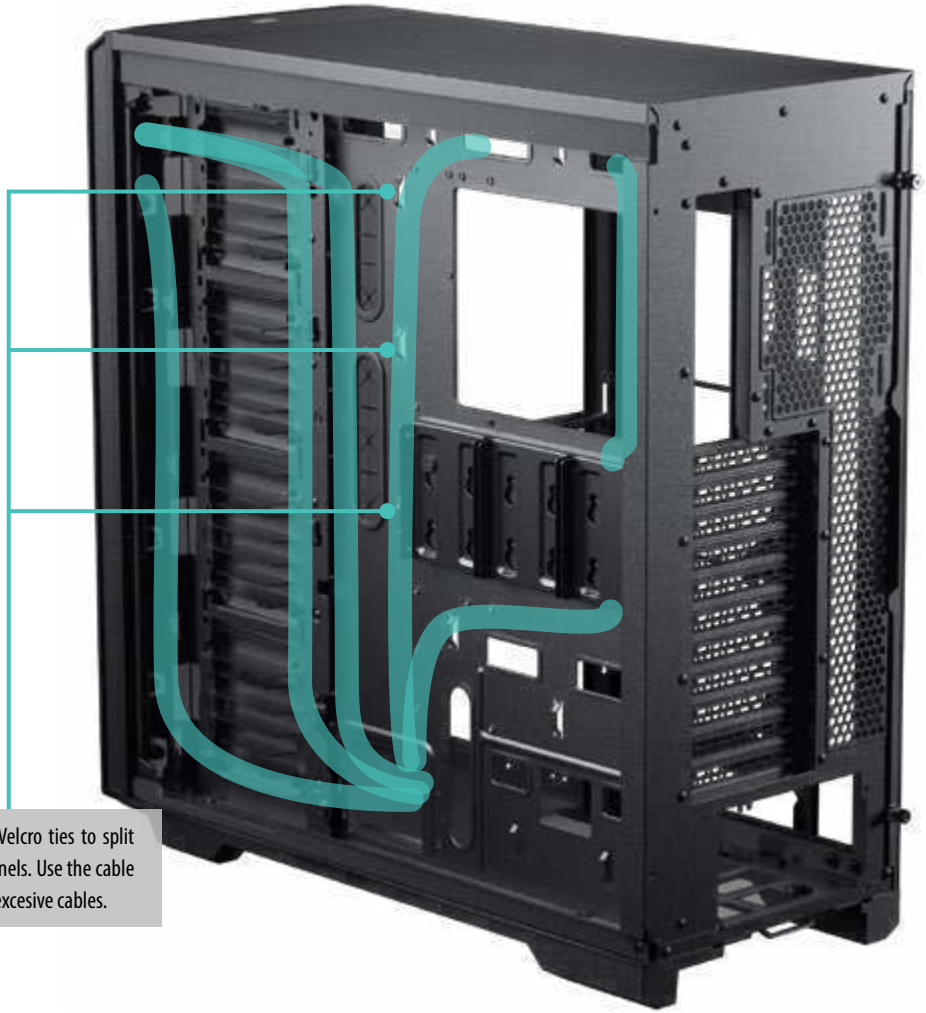
Hold the GPU in the correct position when tightening the thumbscrews.

Please consult the motherboard manual for additional instructions.

⚠ Please make sure to consult your motherboard manual before connecting the front I/O.



Use the double-loop Velcro ties to route your cables.
Zip ties are included in the accessory bag to manage any excess cables.



PRO TIP

Use the double-loop Velcro ties to split the cables into 2 channels. Use the cable cover to hide all your excesive cables.

The Enthoo Pro 2 is equipped with a front, bottom, side, top and PSU filter. We recommend to clean these filters every month to keep your cooling performance optimized.



⚠ If cleaning the dust filters with water, make sure to properly dry them before placing them back.

PREMIUM T30-120 FAN

PH-F120T30_BG / PH-F120T30_BG _3P

The T30-120 fan is the ultimate PC cooling fan. It features a built-in fan profile switch which makes it optimized for every scenario; silent, balanced, or extreme performance. Go for this fan if you are looking for the absolute best performance. Available in single and triple pack.



3.5" STACKABLE HDD BRACKETS

PH-HDDKT_03

For 3.5" or 2.5" Drive
Upgrade up to 6x additional 3,5" HDDs with the optional HDD brackets.
Contains 2x Stackable HDD Brackets.



UNIVERSAL FAN CONTROLLER

PH-PWHUB_02

Conveniently control both 4-pin PWM and 3-pin DC fans with a single controller. Control the speed with the manual remote (software-free) or synced to your motherboard.



DUAL 5.25'' BAY

PH-ODDBAY_01

The Dual 5.25" Bay allows for 2x 5.25" devices to be installed.



M25 FANS

PH-F120M25_PWM_BBK01 / PH-F120M25_DRGB_PWM_BK01 / PH-F120M25_DRGB_PWM_WT01
PH-F140M25_PWM_BBK01 / PH-F140M25_DRGB_PWM_BK01 / PH-F140M25_DRGB_PWM_WT01

The M25-120 fan is designed and optimized to deliver high airflow performance and comes in black or with built-in D-RGB lighting. It is available in both 120 and 140mm size.



1. *INSTALL ANY 5.25" DEVICES INTO THE 5.25" BAY FIRST*

2. *PLACE THE 5.25" BAY INTO THE CHASSIS AND SECURE WITH 3X PSU SCREWS*

3x



As a Phanteks customer, you are priority number one. We have a dedicated team of employees across the globe working hard every day to make sure we deliver the superior experience you deserve. We are here for you. If you have a question or a concern about our products, we have numerous ways you can reach us. Please choose one most convenient for you to connect with our team.

CUSTOMER CARE



RMA AND TECHNICAL SUPPORT INTERNATIONAL

Email : support@phanteks.com

Facebook : @Phanteks

RMA AND TECHNICAL SUPPORT AMERICAS

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Phone number : +1(909)598-2115

Email : support@phanteksusa.com

Facebook : @Phanteks

For up-to-date information please check www.Phanteks.com

PHANTEKS FACEBOOK PAGE

PHANTEKS INSTAGRAM PAGE

PHANTEKS warrants its products to be free from defects in material and workmanship during the warranty period; when given normal, proper and intended usage. If a product proves to be defective in material or workmanship during the warranty period, PHANTEKS will, at its sole option, repair or replace the product with same product or similar product. The replacement product assumes the remaining warranty of the original product or 30 days, whichever provides longer coverage for the customer.

DURATION OF WARRANTY:

1. Fans - 5 years
2. I/O Ports - 2 years
3. LED Lighting - 2 years
4. Buttons - 2 years
5. Chassis - 5 years
6. Front and Top Panels - 5 years

Please check www.phanteks.com/Warranty for more information.