

EVOLV X



Thank you
for choosing

PHANTEKS

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INTRODUCTION

Welcome to Phanteks!

The Evolv X is one of the most versatile mid-tower chassis out there, ready for the future and the most powerful hardware.

Built from premium materials that are engineered with utmost care and attention to detail. A design based on continuous product improvement and innovation throughout the Evolv Series. Discover the ultimate building experience.

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

The Phanteks team



SPECIFICATIONS

CASE SPECIFICATIONS

Dimension (WxHxD)	240 mm x 520 mm x 510 mm 94.5 in x 20.5 in x 20.1 in
Form Factor	Mid Tower
Materials	Anodized aluminum panels Powder coated steel chassis Tempered glass side panels
MB Support	E-ATX, ATX, Micro-ATX, Mini ITX
Front I/O	Power button, 2x USB 3.0, Microphone, Headphone, D-RGB Mode button, D-RGB Color button, USB 3.1 GEN 2 Type-C
Side Window	Yes, Tempered glass both sides

PCI SLOTS & DRIVE BAYS

PCI slots	7x
Internal 3.5"	10x (4 included)
Internal 2.5"	9x (6 included)

FAN	120 mm	140 mm
Front	3x	3x (2 installed)
Top	3x	2x
Rear	1x	1x (1 installed)

RADIATOR	120 mm	140 mm
Front	Up to 360	Up to 420
Top	Up to 360	Up to 280
Rear	120	140

INCLUDED ACCESSORIES

Premium fan 140 mm	3x (installed)
Universal Fan Hub	1x (installed)
3.5" stackable HDD bracket	4x
Vertical GPU Mount	1x
Accessory bag	1x
Anti-Sag Bracket	1x
Airflow Cover	1x
Toolbox	1x

CLEARANCE

CPU Cooler Clearance	190 mm (7.48 in)
GPU Clearance	435 mm (17.24 in)
Front Radiator thickness	95 mm (3.74 in)
Top Radiator thickness	65 mm (2.56 in)

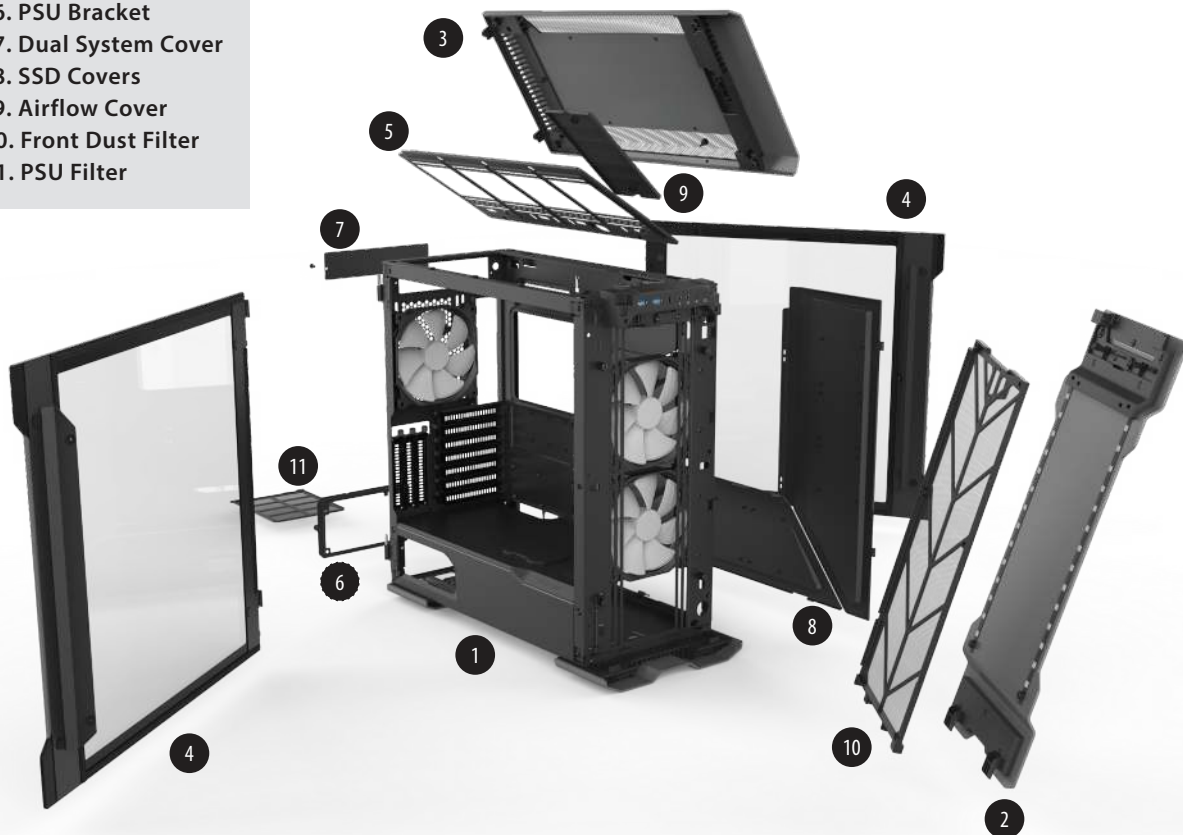
SUPPORT

Contact (International)	support@phanteks.com
Contact (North and South America)	support@phanteksusa.com
Warranty	5 Years*

*see page 31

EXPLODED VIEW

1. Chassis
2. Front Panel
3. Top Panel
4. Side Panels
5. Radiator Bracket
6. PSU Bracket
7. Dual System Cover
8. SSD Covers
9. Airflow Cover
10. Front Dust Filter
11. PSU Filter



ACCESSORIES

3.5" MODULAR HDD BRACKET

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



PREMIUM FAN 140 MM

- 3 Pre-installed
- High static pressure
- Silent operation



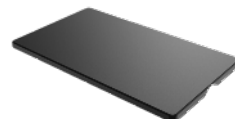
VERTICAL GPU MOUNT

- Included in accessory box
- Riser Cable is sold separately



AIRFLOW COVER

- Included in accessory box
- Magnetic



ACCESSORY BAG AND TOOLBOX

Accessory bag



GPU Anti-Sag Bracket

6x Zip Tie 150mm

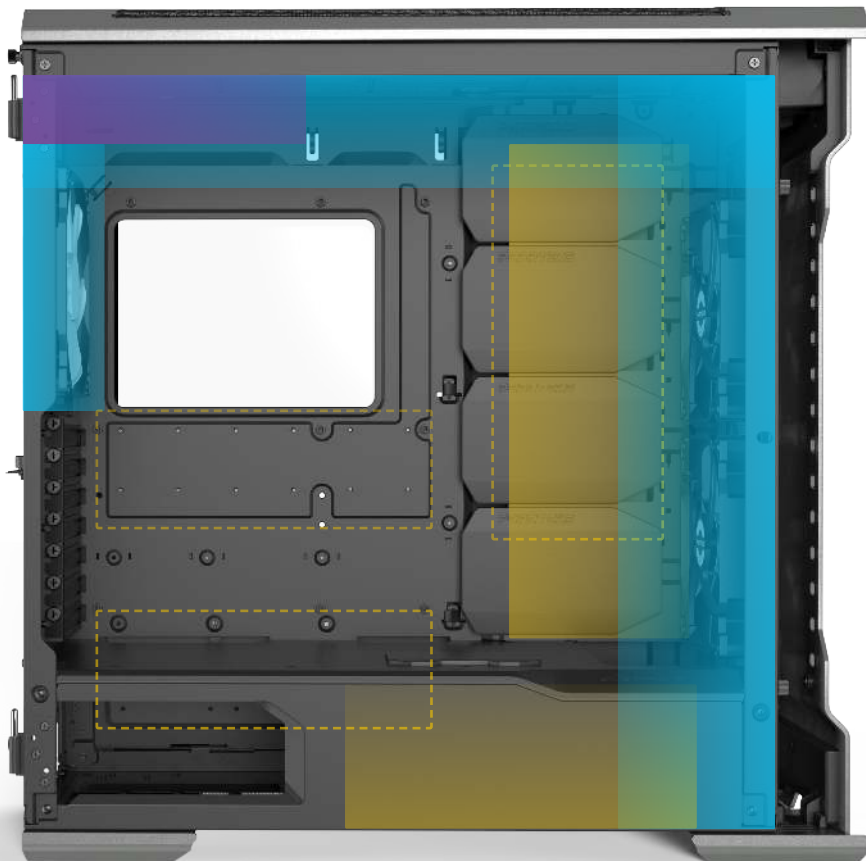
Phanteks Logo Badge

Toolbox

	M3x5 mm Motherboard / SSD / ODD screw	Fan screw	Motherboard Standoff + tool	
			 1x  1x	
	34x	12x		
6-32x6 mm Hex screw	6-32x6 mm Thumb screw	6-32x5 mm Case screw	6-32x9 mm HDD screw	Riser Cable screw
				
7x	12x	6x	16x	3x

CONFIGURE YOUR EVOLV X

The EVOLV X has the most versatile chassis design. With so many possibilities you can use this overview to choose and plan the best configuration for your build.



COOLING

PAGE 12

**WATER
COOLING**

PAGE 17

STORAGE

PAGE 14

**DUAL
SYSTEM**

PAGE 28

GET STARTED

PREPARATIONS

- The Evolv X case is designed to support installation in 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. UNLOCKING SIDE PANELS



REMOVE:

4 x



3. OPENING SIDE PANELS



REQUIRE:



4. REMOVING TOP PANEL



PRO TIP

Use the 4x thumb screws on the front to secure the Side Panels during transport or public events.

LOOSEN:

2 x



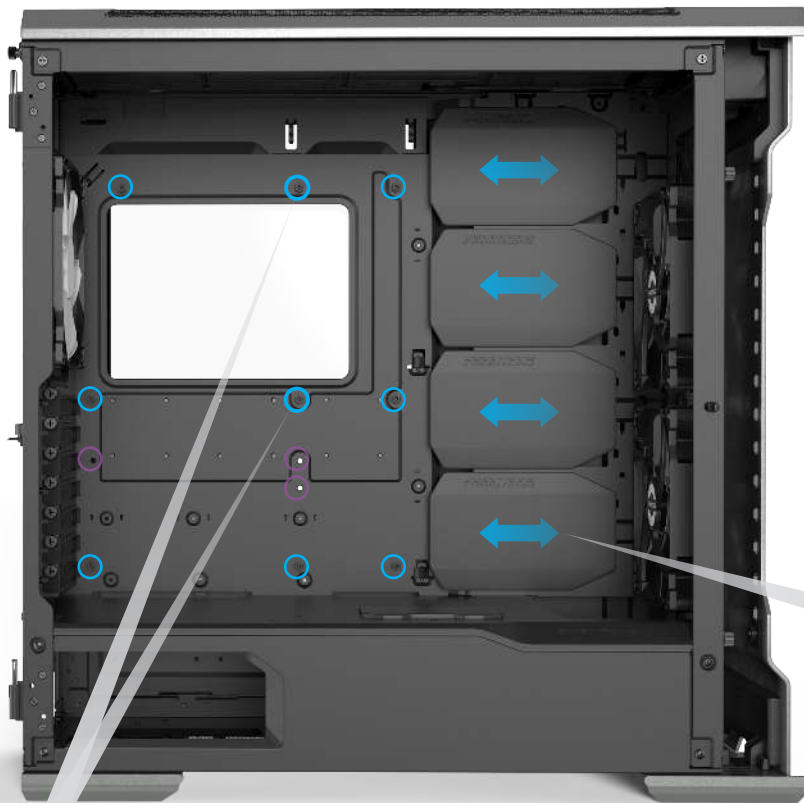
INSTALLING MOTHERBOARD

Use the motherboards screws from the toolbox to install your motherboard on the pre-installed standoffs.

REQUIRE:



For repositioning
standoffs



STANDOFF POSITIONING

ATX / E-ATX
(Pre-installed)



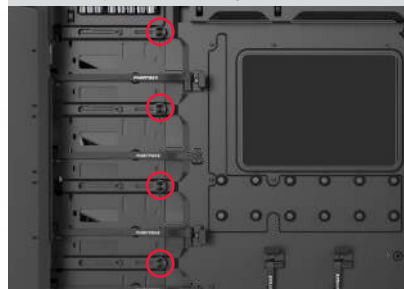
Micro ATX
install extra standoffs



 Some motherboards require installation / repositioning of the standoffs. Please consult your motherboard manual for the correct standoff positioning.



By loosening the thumb screws you can slide the Cable Covers left and right for optimal cable management.



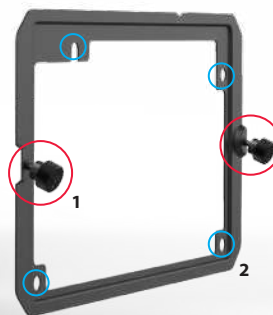
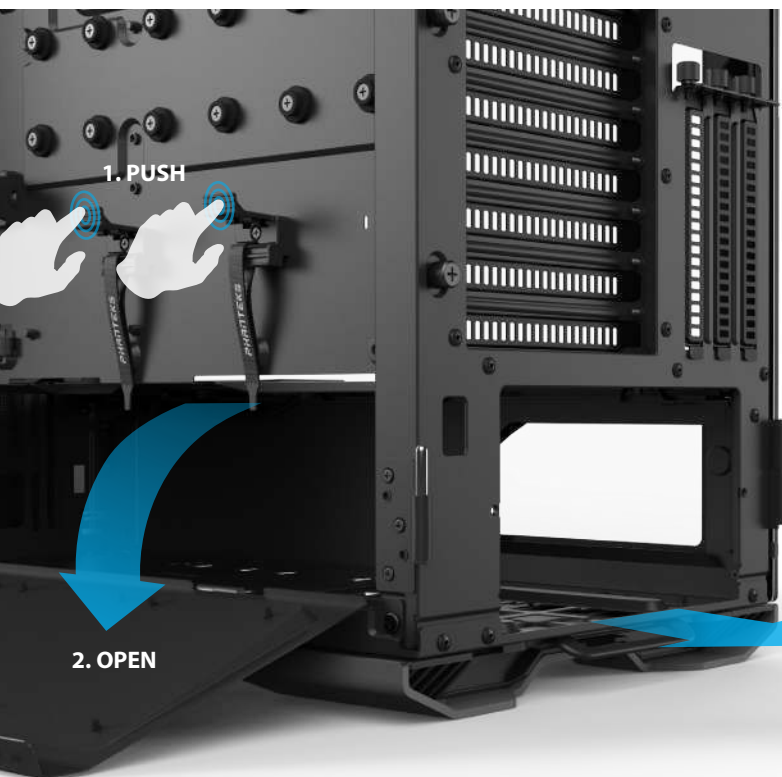
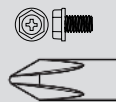
These standoffs have a special collar to keep the motherboard in place when installing vertically.



INSTALLING POWER SUPPLY

The power supply can be installed by removing the PSU bracket on the rear.

REQUIRE:



LOOSEN:

2 x



4 x



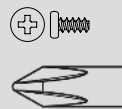
PRO TIP

Connect all needed cables to the power supply before installing it in the case.

INSTALLING FANS

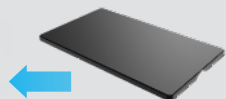
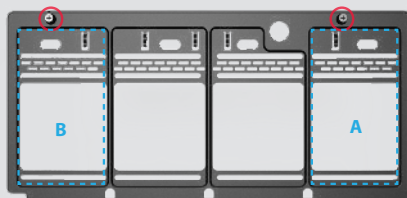
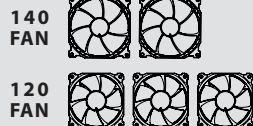
Configure your airflow-path with this overview. All fan locations support both 120mm and 140mm fans.

REQUIRE:



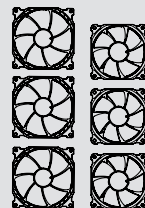
Install the magnetic Airflow Cover to prevent air from re-circulating when you install 2x 120 mm or 2x 140 mm fans.

TOP



AIRFLOW COVER

FRONT



140 FAN 120 FAN

LOOSEN:

2x



REAR

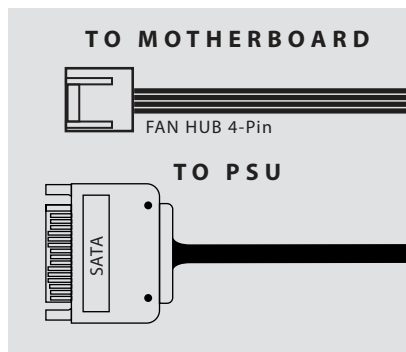


140 FAN 120 FAN



CONNECTING THE UNIVERSAL FAN HUB

1. CONNECT THE FAN HUB 4-PIN CABLE TO YOUR MOTHERBOARD FAN HEADER
2. CONNECT EXTRA FANS TO THE CORRESPONDING CONNECTOR ON THE UNIVERSAL FAN HUB
3. CONNECT THE SATA CABLE TO THE POWER SUPPLY



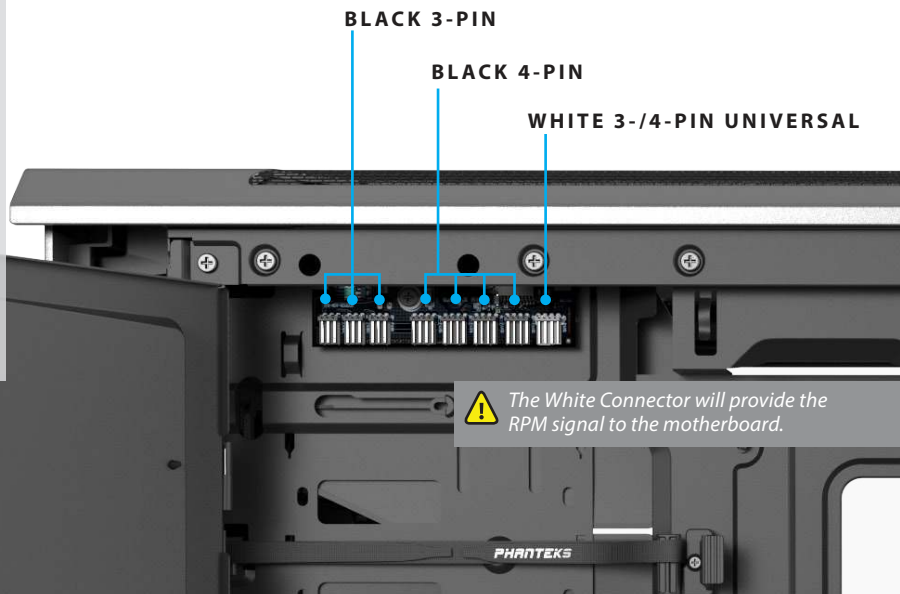
You can choose a PWM or DC output in the motherboard settings. The Fan Hub will automatically translate the signal to all connected 3- and 4-pin fans. Check WWW.PHANTEKS.COM/FAQ for more technical details.



Choosing a PWM output provides the most customization options in the motherboard settings.



Expand the number of fans with splitter cables up to a maximum of 4A total power. Splitter cables are sold separately: **PH-CB-Y4P / Y3P**



INSTALLING DRIVES

2.5" SSD INSTALLATION

Both SSD Covers support 3x 2.5" SSDs.
Each SSD is mounted with 4x screws.

REMOVE:

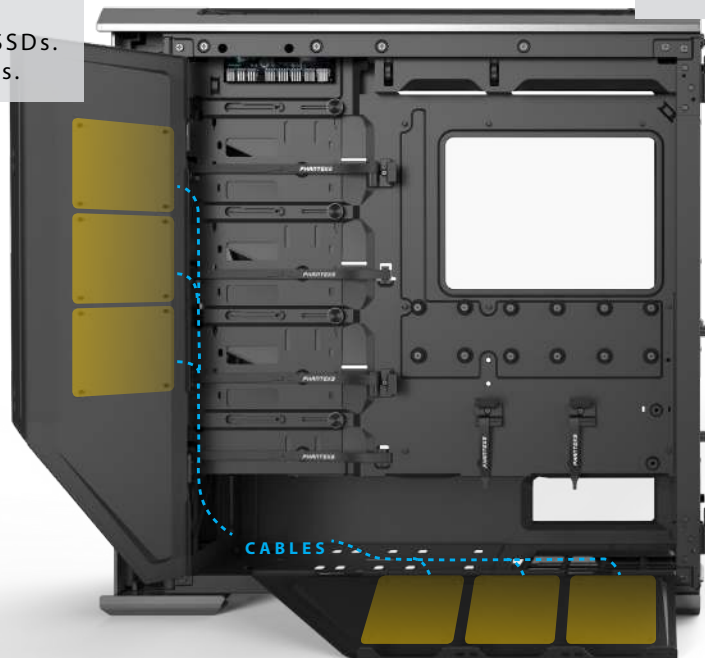
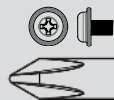
4 x



4 x



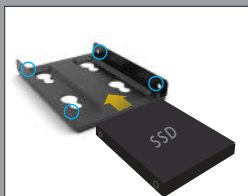
REQUIRE:



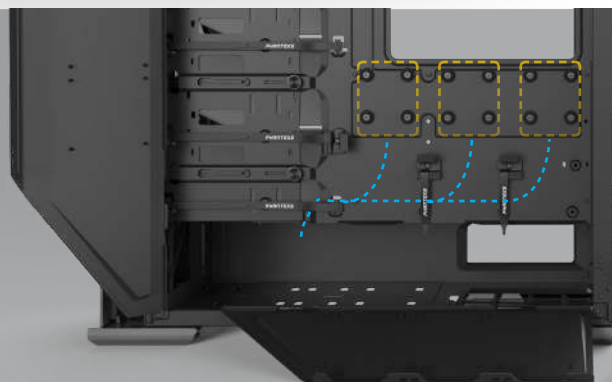
OPTIONAL SSD STORAGE

Up to 3x additional SSDs can be installed using the *Phanteks 2,5" SSD bracket (PH-SDBKT_01).

*SSD brackets are not included and sold separately.



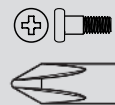
PH-SDBKT_01 required



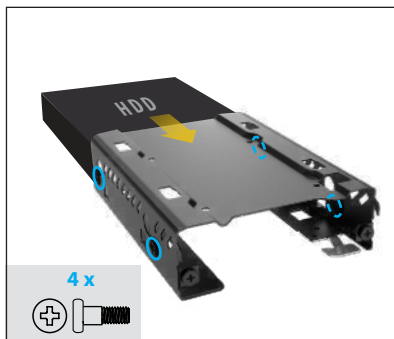
3.5" HDD INSTALLATION

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

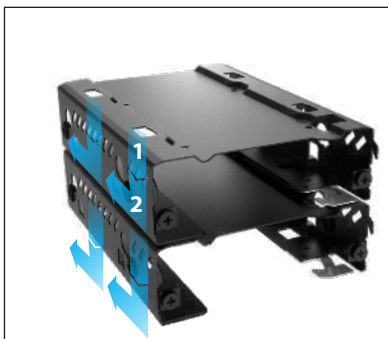
REQUIRE:



HDD INSTALLATION

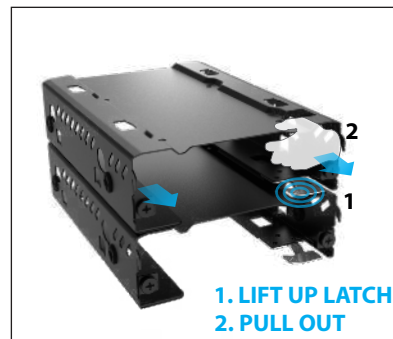


STACK / INSTALL



Each HDD bracket can be stacked together to offer more flexibility.

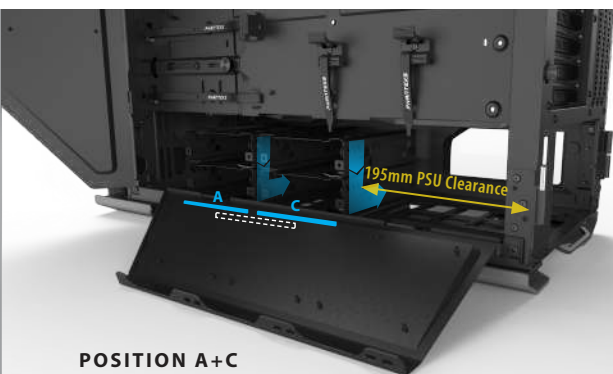
REMOVE



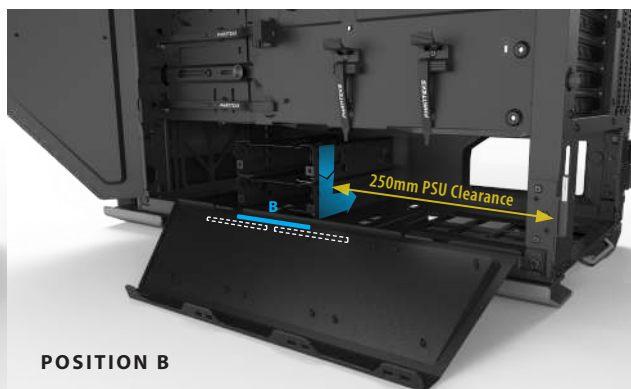
The HDD bracket can also house a 2.5" SSD instead of a 3.5" HDD.

BOTTOM COMPARTMENT

TWO STACK-CONFIGURATION



SINGLE STACK-CONFIGURATION



MAIN COMPARTMENT

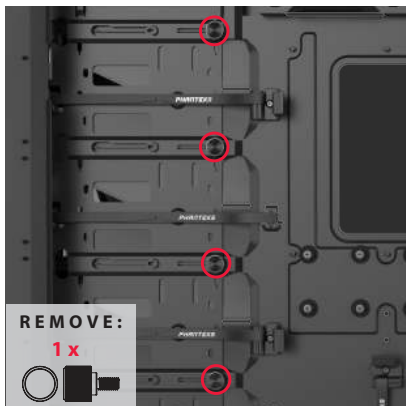
Up to 6 Stackable HDD Brackets can be installed in the main compartment.

REQUIRE:

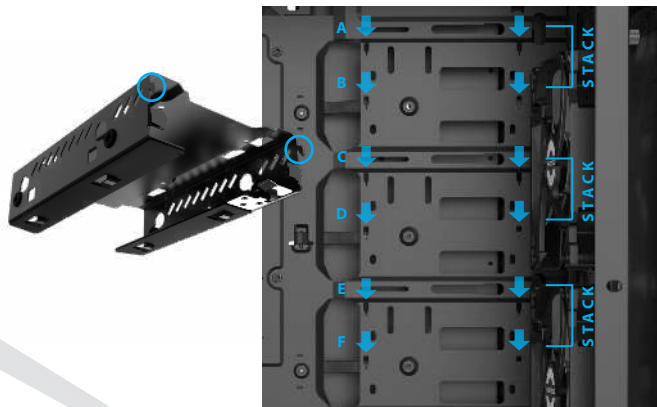


Stack the HDD brackets before mounting if you install more than 1x bracket.

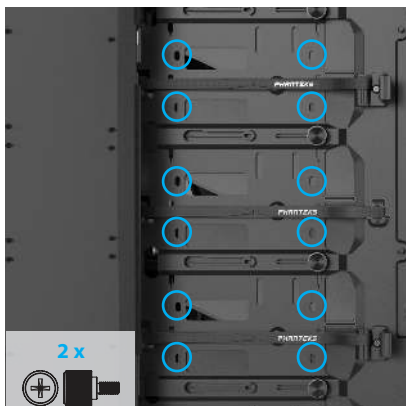
1. REMOVE THE CABLE COVER(S) TO REVEAL THE HDD MOUNTS



2. MOUNT THE (SINGLE / STACKED) HDD BRACKETS IN POSITION



3. SECURE WITH 2 THUMBSCREWS



INSTALLING WATER COOLING

REQUIRE:



TOP

120 FORM FACTOR

120

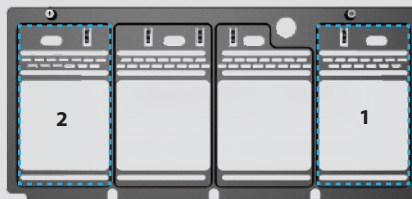
240

360

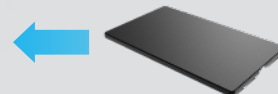
140 FORM FACTOR

140

280



Use the Airflow Cover to prevent hot air from circulating.



REAR

120 FORM FACTOR

120

140 FORM FACTOR

140



FRONT

120 FORM FACTOR

120

240

360

140 FORM FACTOR

140

280

420

RADIATOR CLEARANCE

TOP

MAX. RADIATOR CLEARANCE

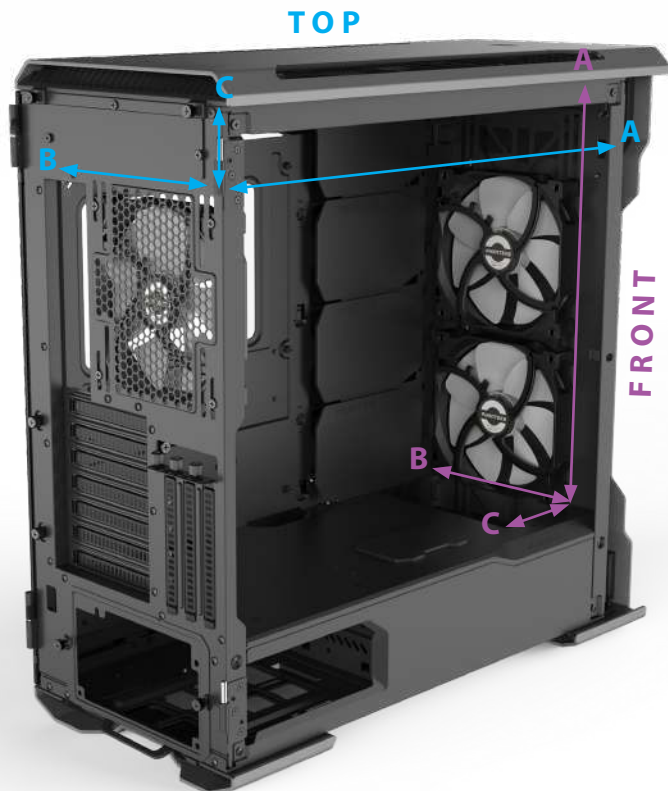
140mm Radiators: **A**:405mm **B**:146mm **C**:65mm
120mm Radiators: **A**:405mm **B**:126mm **C**:65mm*

**If the motherboard and its components (e.g. memory) are 50mm or lower there is no limit in Radiator thickness.*

FRONT

MAX. RADIATOR CLEARANCE:

A:465mm **B**:148mm **C**:95mm



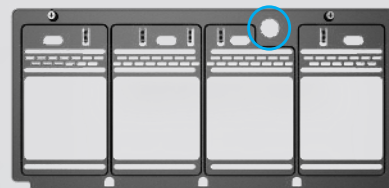
Installing a fill port in the top radiator bracket and/or a drain port in the front of the case makes water cooling maintenance much easier.

The port diameters are 20.5mm.

Phanteks Passthrough fitting: **PH-PTF_BK/CR_G1/4**

Phanteks Ball-Valve fitting: **PH-BVA_BK/CR_G1/4**

FILL PORT

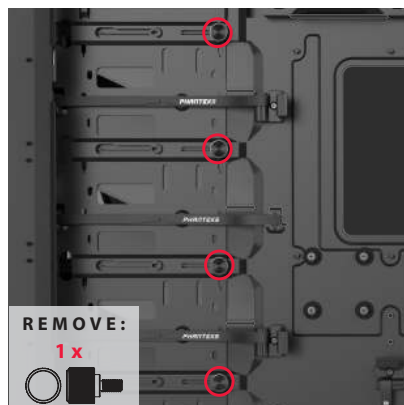
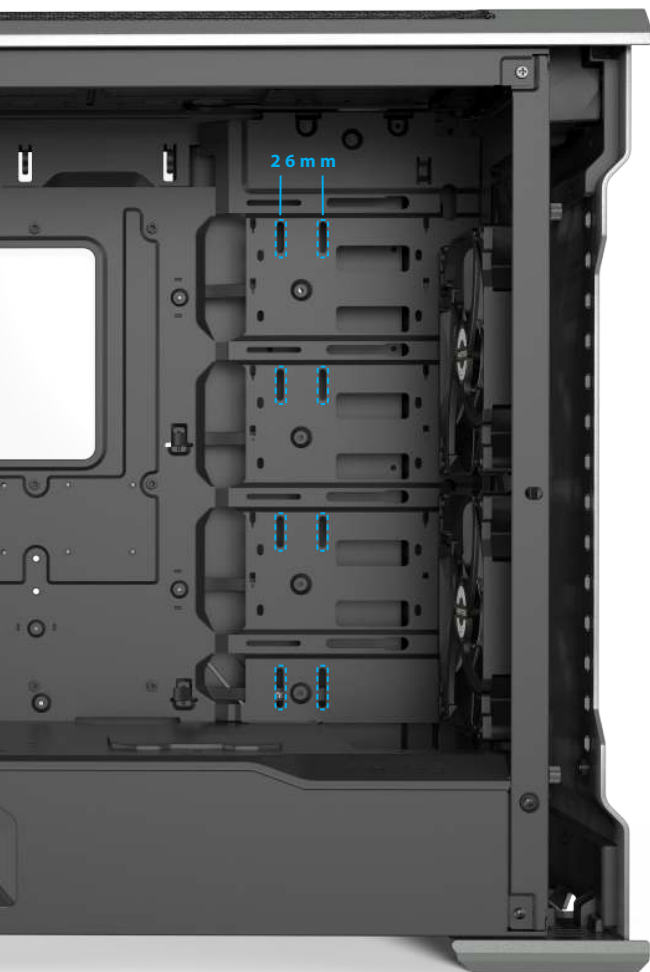


DRAIN PORT



RESERVOIR INSTALLATION

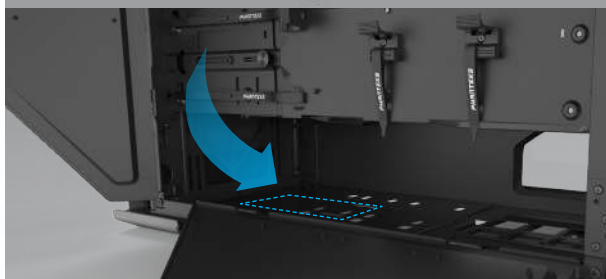
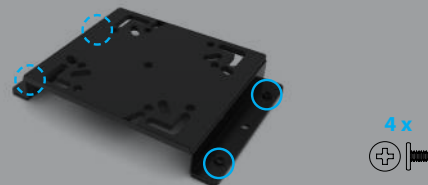
Reservoir mounting points are accessed by removing the Cable Covers.



OPTIONAL PUMP BRACKET

The universal Pump Bracket can be installed in the bottom compartment using 4 case screws.

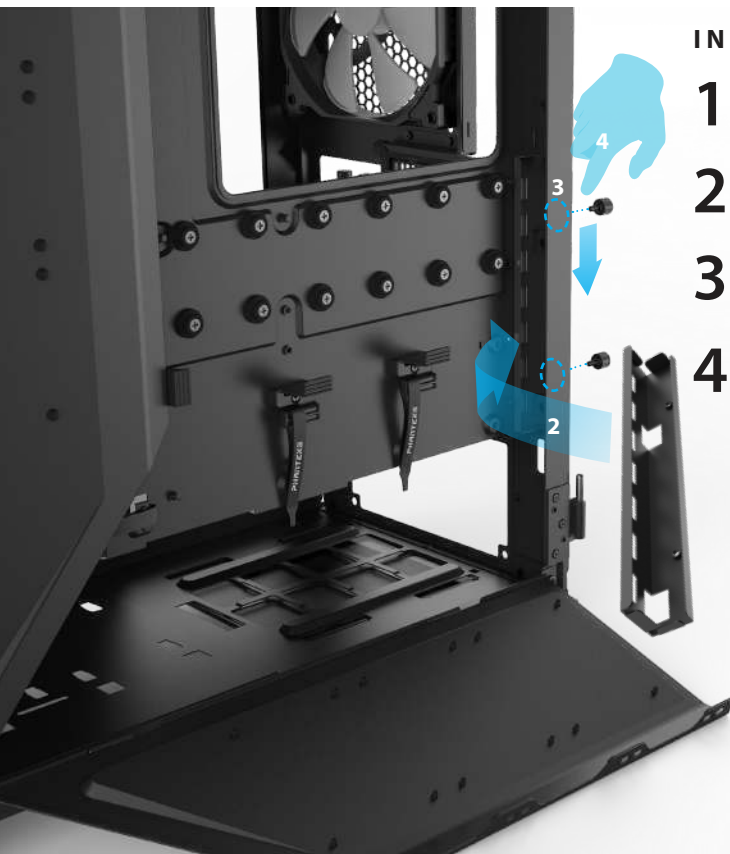
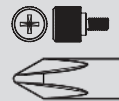
Pump Bracket sold separately
(PH-PUMBKT_01)



GPU ANTI-SAG BRACKET

To prevent your GPU from tipping down you can install the GPU Anti-Sag Bracket.

REQUIRE:



INSTALLING GPU ANTI-SAG BRACKET

1. INSTALL ALL GPU AND PCI CARDS
2. PLACE THE GPU ANTI-SAG BRACKET
3. INSERT THE THUMBSCREWS WITHOUT TIGHTENING THEM
4. PRESS DOWN AND LOCK THE THUMBSCREWS IN POSITION.



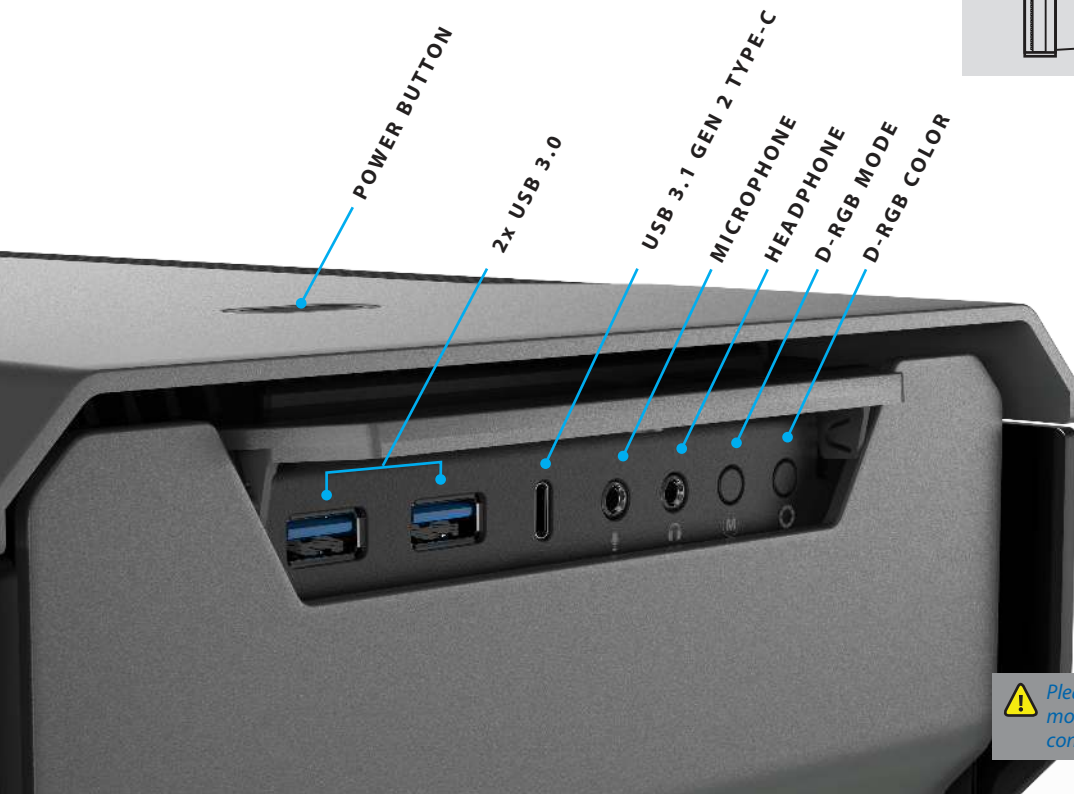
! Always loosen the 2 thumb screws before removing any GPU or PCI card.

CONNECTING FRONT I/O

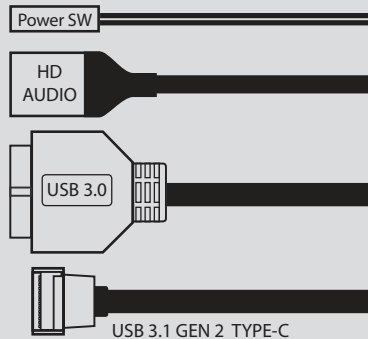
Please consult the motherboard manual for additional instructions.



There's no POWER LED +/- cable. For powering your Evolv X lighting, please go to page 22.



TO MOTHERBOARD



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

D-RGB LIGHTING

The integrated D-RGB lighting is plug-and-play and can be expanded with up to 8 more D-RGB products from Phanteks.

 Please connect the 12V SATA connector to your PSU to power the case lighting.

MODE COLOR



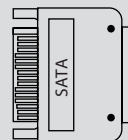
All Phanteks D-RGB products can be Daisy-Chained to optimize cable management.

TO PHANTEKS D-RGB PRODUCTS

To DIGITAL-RGB Products



TO POWER SUPPLY



TO THIRD PARTY D-RGB PRODUCTS

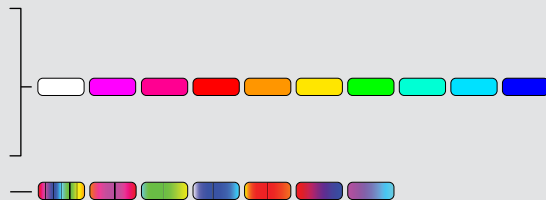


D-RGB CONTROLS

 **MODE**

-  Solid
-  Breathing
-  Radar
-  Sparkle
-  Rainbow

 **COLOR**



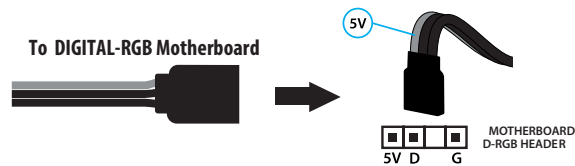
2 sec

Press & Hold MODE: Turn off Front LED's.

Press & Hold MODE 2 sec again: Turn off all LED's.

SYNC CASE LIGHTING WITH D-RGB COMPATIBLE MOTHERBOARD

1. Connect the D-RGB motherboard connector to the motherboard.



D-RGB MOTHERBOARD ADAPTER



2. Run the Motherboard Lighting software and follow the instructions to set up your lighting.



 Only connect Phanteks D-RGB products to a 3-pin 5V motherboard connector.

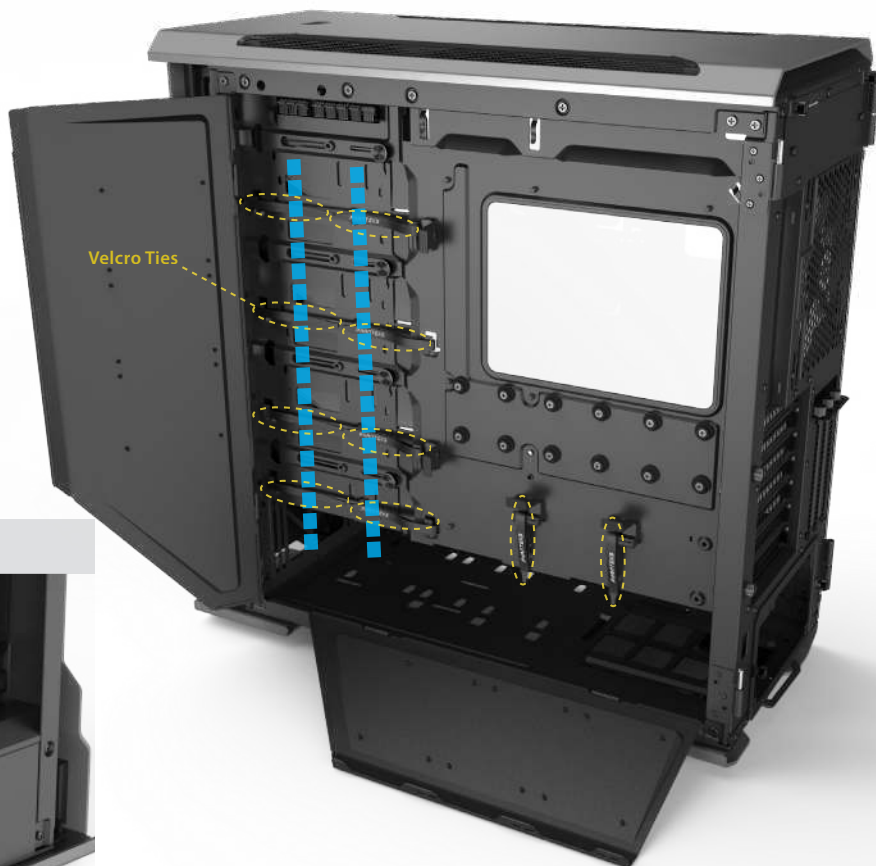


COMPATIBLE WITH

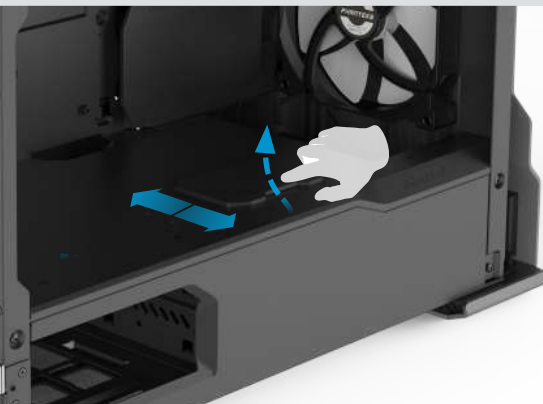


CABLE MANAGEMENT

Use the velcro ties to route your cables before closing the SSD Covers. Zip ties are included in the accessory bag to manage any excess cables.



GPU CABLE ROUTING



OPTIONAL UPGRADES

2.5" SSD BRACKET

PH-SDBKT_01

For 2.5" SSD Drive

Upgrade up to 3x additional 2.5" SSDs with the optional SSD brackets.

PAGE 14

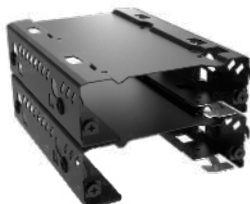


3.5" STACKABLE HDD BRACKETS PH-HDDKT_03

For 3.5" or 2.5" Drive

Upgrade up to 6x additional 3.5" HDDs with the optional HDD brackets.

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PHANTEKS PH-F120MP / PH-F140MP

High static pressure 120/140 mm fans

More fans can be installed in the Evolv X and connected to the Universal Fan Hub using splitter cables.

PAGE 12



CABLE EXTENSION SET

PH-CBCMB0

- Available in multiple colors
- Includes clear cable combs
- Also available as separate cables

DIGITAL-RGB LED COMBO SET PH-DRGBLED_CMBO

High density Digital-RGB LED strips with magnets

The D-RGB equipped Evolv X is ready to expand with more D-RGB lighting products.

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HALOS (LUX) DIGITAL RGB FAN FRAMES

PH-FF120DRGBA
PH-FF140DRGBA

PH-FF120DRGBP
PH-FF140DRGBP

High density Digital-RGB LED fan frames that illuminate any fan.

The D-RGB equipped Evolv X is ready to expand with more D-RGB lighting products.

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Y-SPLITTER CABLES

PH-CB-Y4P / PH-CB-Y3P

4-pin / 3-pin Fan splitters

More fans can be connected to the Universal Fan Hub using splitter cables.

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Included cables:

- Motherboard 24-pin
- CPU 4+4-pin
- 2x GPU 6+2-pin



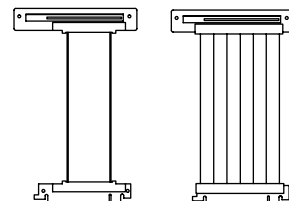
220 mm Slimline PCI-E x16 Riser Cable 90° 220 mm Premium Shielded High Speed PCI-E x16 Riser Cable 90°

PH-CBRS_SL22
PH-CBRS_PR22

Vertical GPU installation

With the optional Riser Cable you can place any 2- or 3-slot GPU vertically.

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ITX Upgrade Kit

PH-ITXKT_02

Dual System installation

With the optional Riser Cable you can place any 2- or 3-slot GPU vertically for your 2nd ITX system.

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Revolt X Power Supply

PH-P1000PS
PH-P1200PS

Dual System installation

The Revolt X power supply unlocks the Dual System Configuration. But also works great as a “single system” power supply.

PAGE 11



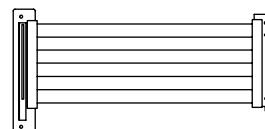
600 mm Premium Shielded High Speed PCI-E x16 Riser Cable 90°

PH-CBRS_PR60

Vertical GPU installation for 2nd system (Dual system configuration)

With the optional Riser Cable you can place any 2- or 3-slot GPU vertically for your 2nd ITX system.

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INSTALLING VERTICAL GPU

1. INSTALL RISER CABLE

- Riser Cable sold separately (PH-CBR5_SL22)



2 x



REQUIRE:



2. INSTALL VERTICAL GPU MOUNT WITH 2X SCREWS



2 x



PRO TIP

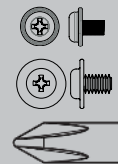
The GPU Mount has 2 mounting positions.
Position A allows for better air cooling
and 3-slot GPU cards.

INSTALLING DUAL SYSTEM

ITX Bracket sold separately (*PH-ITXKT_02*)

 The Revolt X power supply from Phanteks is required for this configuration.

REQUIRE:



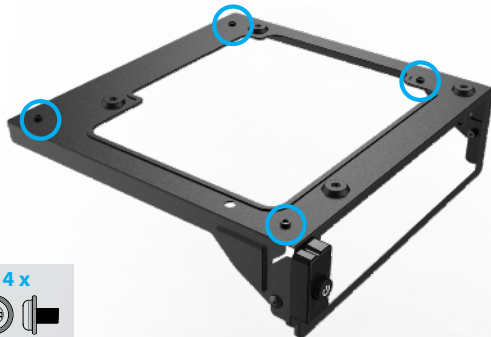
1. REMOVE THE DUAL SYSTEM COVER FROM THE CHASSIS.

REMOVE:

2 x



2. INSTALL YOUR ITX MOTHERBOARD ON THE BRACKET USING THE INCLUDED MOTHERBOARD SCREWS



Motherboard screws and ITX bracket screws are included with the ITX bracket (*PH-ITXKT_02*)

TO ITX MOTHERBOARD

Power SW

Power LED

3. CONNECT THE POWER SWITCH AND LED CABLE

4 x



4. INSTALL THE ITX BRACKET WITH 4X ITX BRACKET SCREWS

4 x



1

4

VERTICAL GPU SECOND SYSTEM

1. INSTALL RISER CABLE

Riser Cable sold separately (PH-CBRS_PR60)



Depending on your needs, it's not always necessary to install a GPU for your second system when your ITX motherboard is equipped with an onboard GPU.

REQUIRE:

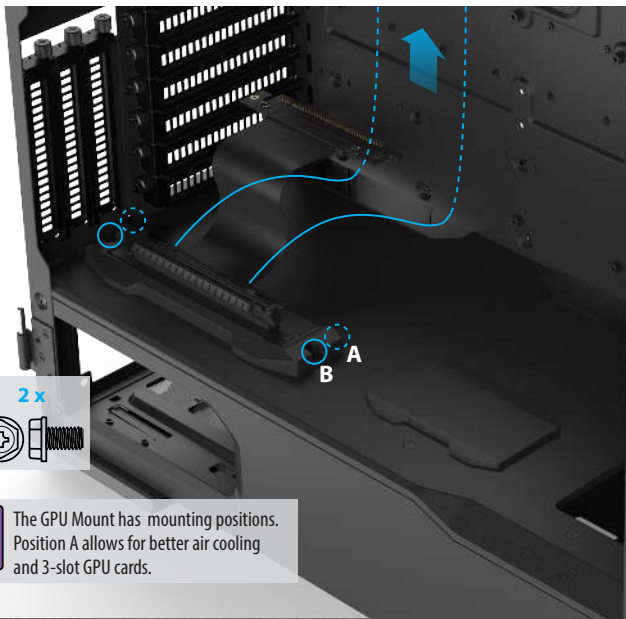


2 x



2. INSTALL VERTICAL GPU MOUNT WITH 2X SCREWS

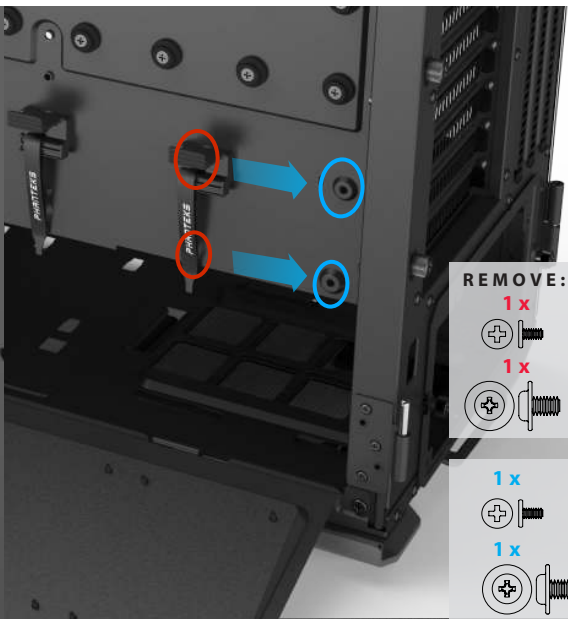
3. MOVE VELCRO TIE



2 x



The GPU Mount has mounting positions. Position A allows for better air cooling and 3-slot GPU cards.



REMOVE:

1 x



1 x



1 x



1 x



CONTACT US

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

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Facebook : @Phanteks

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Hours : Monday-Friday 9:00-5:00 PST

Phone number : +1(909)598-2115

Email : support@phanteksusa.com

Facebook : @Phanteks



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

EVOLV X PRODUCT PAGE



PHANTEKS FACEBOOK PAGE



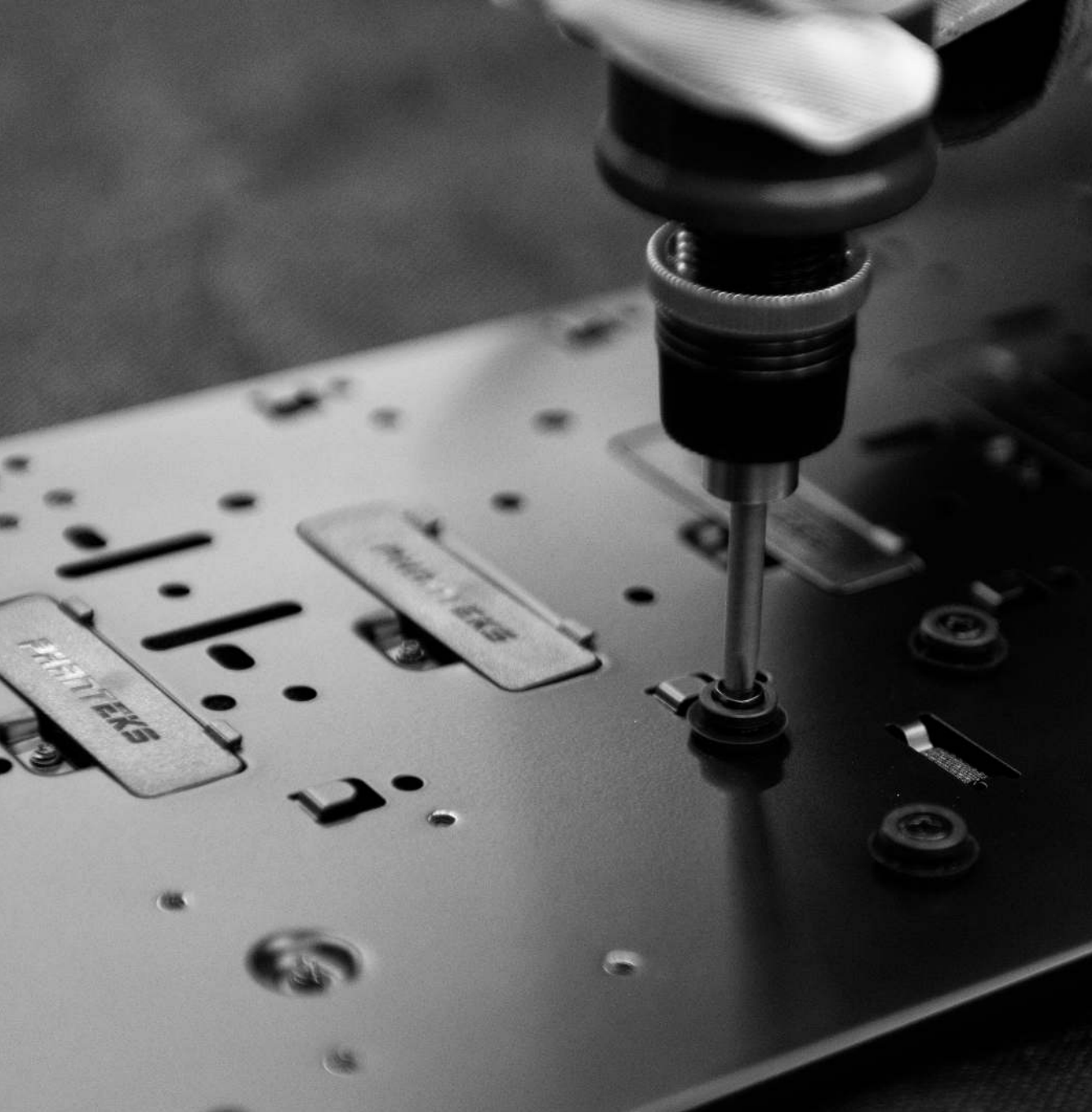
WARRANTY

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. Fan Hub - 2 years
4. LED Lighting - 2 years
5. Buttons - 2 years
6. Chassis - 5 years
7. Front and Top Panels - 5 years

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



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