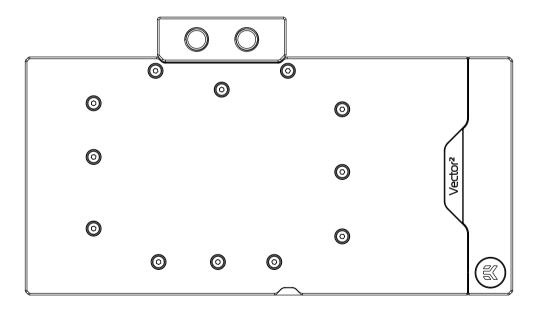
EK-Quantum Vector² AMP/Trinity RTX 4080 D-RGB

GPU WATER BLOCK







Please note the installation of the product is intended to be undertaken by an adequately trained and experienced person. You are installing the product at your own risk. If you are not properly trained or experienced or feel unsure about the installation procedure, please refrain from installing the product yourself and contact our tech support for assistance. We disclaim our liability for any damages to the product as well as incidental, consequential, or indirect damages incurred due to improper or inappropriate installation.

Before you start using this product, please follow these basic guidelines:

Remove your graphics card from the computer for the safest mounting process to prevent any possible damage to your GPU or its circuit board (PCB).

The EK Fittings require only a small amount of force to screw them firmly in place since the liquid seal is ensured by the rubber O-ring gaskets.

The use of corrosion-inhibiting coolants is always recommended for liquid cooling systems and mandatory for nickel-plated water blocks!

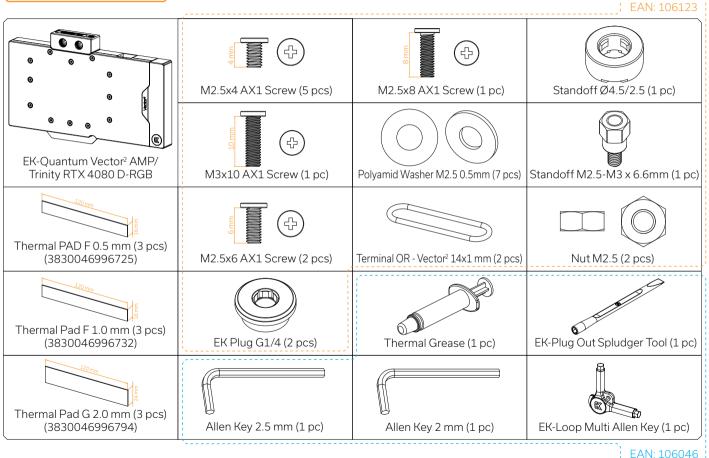
Do not use pure distilled water!

For best results, EK recommends the use of EK-CryoFuel coolants! To reach optimal performance, make sure to thoroughly bleed the air out of your water block!

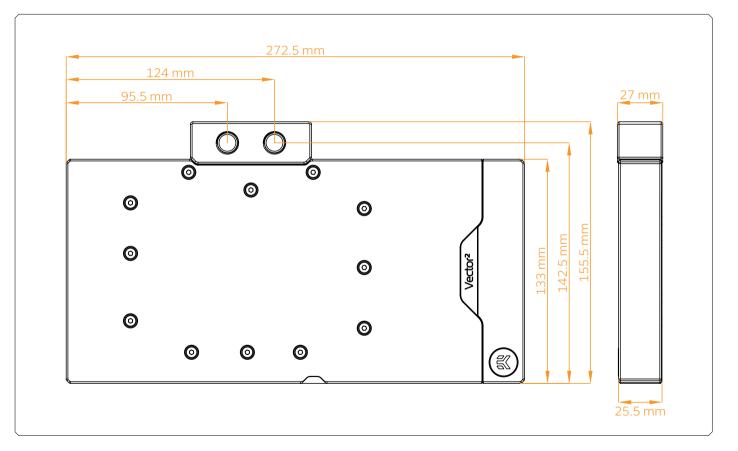
TABLE OF CONTENTS

BOX CONTENTS	4
WATER BLOCK DIMENSIONS	5
TECHNICAL SPECIFICATIONS AND WATER BLOCK PARTS	6
NICKEL PLEXI	6
PREPARING THE GRAPHICS CARD	7
REMOVING THE STOCK COOLER	7
ZOTAC GAMING GeForce RTX 4080 AMP Extreme AIRO	7
PREPARING THE WATER BLOCK FOR INSTALLATION	
CUTTING AND PLACING THERMAL PADS	9
APPLYING THERMAL COMPOUND	10
ATTACHING THE WATER BLOCK	10
INSTALLING THE BACKPLATE	12
ATTACHING THE BACKPLATE	13
INSERTING THE GRAPHICS CARD INTO THE CHASSIS	13
FITTINGS AND TUBING	14
CONNECTING THE D-RGB LED STRIP	14
TESTING THE LOOP	15
WARRANTY	15
SUPPORT AND SERVICE	16
SOCIAL MEDIA	16

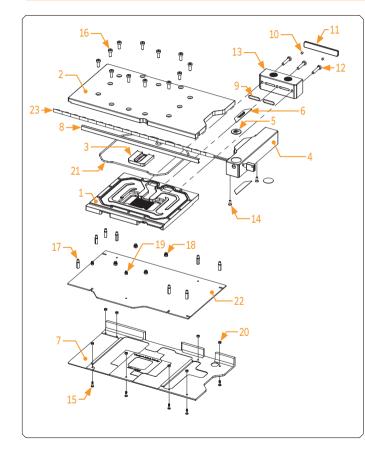




WATER BLOCK DIMENSIONS



TECHNICAL SPECIFICATIONS AND WATER BLOCK PARTS

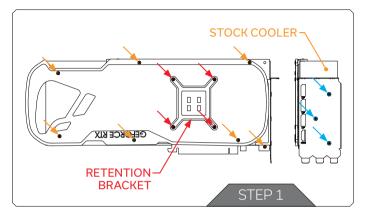


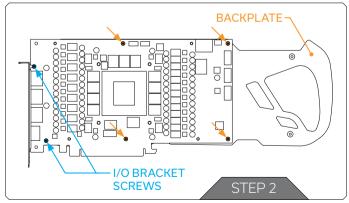
NICKEL PLEXI

- Dimensions: (L x H x W): 272.5 x 155 x 27 mm
- D-RGB LED count: 15
- D-RGB cable length: 50 cm
- D-RGB connector 3-pin 5V digital LED header (Pinout: +5V | Data | Blocked | Ground)

Position	EAN	Description	Quantity
1	106218	Coldplate (Nickel)	1
2	106108	Top plate (Plexi)	1
3	106133	Plexi insert	1
4	103971	Stand out (Acetal)	1
5	100663	EK - Badge	2
6	103964	Mylar sticker	2
7	106221	Backplate (Bl. elox)	1
8	106113	LED Cover (N. elox)	1
9	104106	Terminal OR - 14 x 1 mm	2
10	104216	Disc magnet 3 x 3	2
11	103942	Terminal Badge	1
12	8311	Screw M4 x 20 DIN7984	3
13	103947	FC Terminal (Acetal)	1
14	8208	Screw M3 x 8 7991DIN	2
15	104187	Screw M2.5 x 8 AX1	8
16	9024	Screw M4 x 10 DIN7984	12
17	103986	Standoff M3.5-M2.5 x 11.3 mm	8
18	103988	Standoff M4-M2.5 x 3 mm	4
19	103987	Standoff M3.5-M2.5 x 3 mm	2
20	104188	Standoff fi 4.5/2.5 mm	8
21	106120	Main OR 144 x 2 mm	1
22	106124	PCB cardboard	1
23	101556	LED D-RGB strip 500/300 mm	1

PREPARING THE GRAPHICS CARD





REMOVING THE STOCK COOLER

ZOTAC GAMING GeForce RTX 4080 AMP Extreme AIRO

STEP 1

Using a Philips-head screwdriver, unscrew marked screws to detach the stock cooler and retention bracket from the GPU PCB. After removing, carefully unplug all the LEDs and FANs cables.

For this step, you will need:



STEP 2

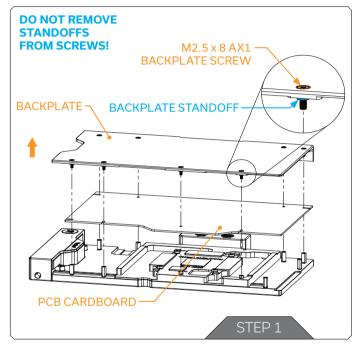
From the front side of the GPU PCB, additional two (2) screws must be unscrewed to remove the I/O Bracket from the GPU PCB. Lastly, unscrew four (4) backplate screws. Remove the Backplate.

Save the I/O Bracket for later use.

For this step, you will need:



PREPARING THE WATER BLOCK FOR INSTALLATION



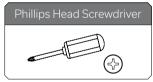
STEP 1

Unscrew eight (8) Screws AX1 M2.5 x 8 mm. Remove the backplate together with the Screws and backplate standoffs. Standoffs must stay on Screws AX1 M2.5 x 8 mm. Remove the PCB cardboard. Save the removed parts for later steps.

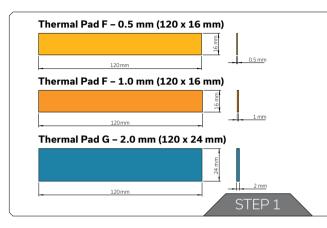


Do not remove standoffs from screws! In case the standoff detaches from the screw, replace it with a spare one. When replacing the standoff make sure that you screw it on the AX1 M2.5 x 8 screws. Do not push the standoff onto the screw AX1 M2.5 x 8 mm.

For this step, you will need:



CUTTING AND PLACING THERMAL PADS



STEP 1

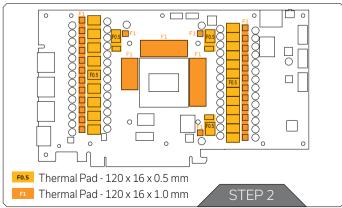
The GPU water block comes with thermal pads that have to be cut into smaller pieces to cover all the VRM components, such as COILs, MOSFETs, and drivers.



Remove the protective foil from both sides of the thermal pad before installation.

Replacement thermal pads:

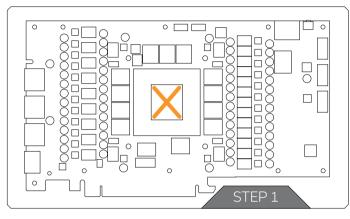
Thermal Pad F 0.5 mm – $(120 \times 16 \text{ mm})$ EAN: 3830046996725 Thermal Pad F 1.0 mm – $(120 \times 16 \text{ mm})$ EAN: 3830046996732 Thermal Pad G 2.0 mm – $(120 \times 24 \text{ mm})$ EAN: 3830046996794



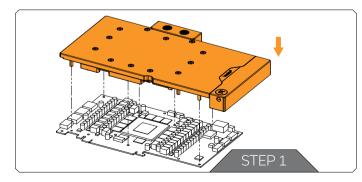
STEP 2

Once cut to the size, Thermal Pads should be placed on the PCB, as shown in the picture.

APPLYING THERMAL COMPOUND



ATTACHING THE WATER BLOCK



STEP 1

Apply the enclosed thermal grease (thermal compound) on the GPU heat spreader - IHS - as shown in the image. The layer of the thermal compound must be thin and even over the entire surface of the IHS



The excessive or uneven application of thermal grease may lead to poor performance!

For this step, you will need:



STEP 1

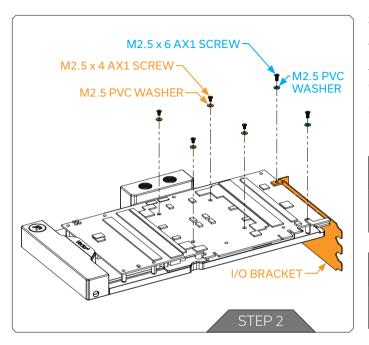
Carefully position the water block with preinstalled standoffs on the graphics card. During this process, make sure you have aligned the mounting holes of the PCB with the holes of the water block.



Pay attention not to use too much force when pressing the block down to the PCB since chip dies are prone to cracking.



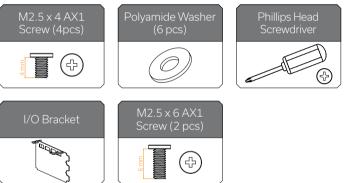
Before attaching the PCB to the Water Block, make sure all the Thermal Pads are placed correctly!



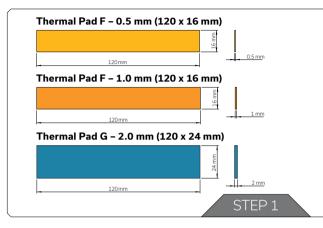
STEP 2

Use four (4) M2.5 x 4 AX1 Screws and PVC washers to tighten the PCB on the water block. Tighten the screws evenly using the Phillips-head screwdriver. EK recommends you start tightening the screws around the GPU core first, and then continuing outward to prevent damage to the GPU. After securing the GPU PCB, reuse the I/O Bracket and tighten it with two (2) M2.5 x 6 AX1 Screws and PVC Washers (from the mounting bag).

For this step, you will need:



INSTALLING THE BACKPLATE



2 Thermal Pad - 120 x 24 x 2.0 mm

STEP 1

After attaching the water block, a few more thermal pads need to be cut into smaller pieces to cover all the necessary components. EK made sure to provide you with more than an adequate quantity of thermal pads to complete this step.



CAUTION: You must remove the protective foil from both sides of the thermal pad before installation.

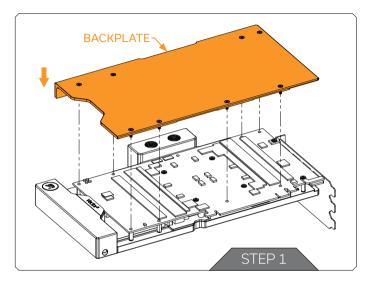
Replacement thermal pads:

Thermal Pad F 0.5 mm - $(120 \times 16 \text{ mm})$ EAN: 3830046996725 Thermal Pad F 1.0 mm - $(120 \times 16 \text{ mm})$ EAN: 3830046996732 Thermal Pad G 2.0 mm - $(120 \times 24 \text{ mm})$ EAN: 3830046996794

STEP 2

Apply the thermal pads onto the Backplate as shown in the image.

ATTACHING THE BACKPLATE



STEP 1

Position the backplate (including screws and standoffs) onto the GPU PCB. Make sure all the holes are aligned. Tighten the screws evenly.

Before attaching the backplate, make sure all the Thermal Pads are placed correctly!

Do not use excessive force!

For this step, you will need:



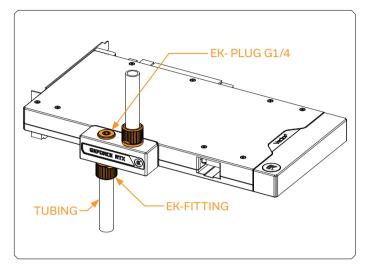
INSERTING THE GRAPHICS CARD INTO THE CHASSIS

Carefully lift your graphics card with the installed water block and insert it into your PC's motherboard PCI Express expansion slot. Please keep in mind that your graphics card is heavier than before it was equipped with the water block.



You need to be very careful when handling the graphics card. Avoid all unnecessary manipulation of the water block assembly that might damage your card or water block.

FITTINGS AND TUBING



Screw in two (2) G1/4 threaded male fittings. Attach the liquid cooling tubes and connect the water block to the cooling loop.



Do not forget to plug the remaining two openings using the enclosed EK-Plug G1/4 or its equivalent.

EK recommends using EK fittings with all EK water blocks.

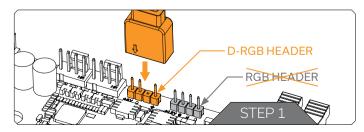


CAUTION: When using connectors other than EK fittings, pay special attention to the length of the fittings' male G1/4" thread – 5mm is the maximum G1/4" thread length allowed!

For this step, you will need:



CONNECTING THE D-RGB LED STRIP



STEP 1

Plug the **3-pin connector** of the distribution plate D-RGB LED light to the **D-RGB HEADER** on the motherboard. The LED will work if the pin layout on the header is as follows: **+5V**, **Digital**, **Empty, Ground**.



Incorrect installation or installation to a wrong header can damage the LED strip or the header itself!



To make sure the installation of EK components was successful, we recommend you perform a leak test for 24 hours. When your loop is complete and filled with coolant, connect the pump to a PSU outside of your system. Do not connect power to any of the other components. Turn on the PSU and let the pump run continuously. It is normal for the coolant level to drop during this process as air collects in the distribution plate. Inspect all parts of the loop, and in the eventuality, that coolant leaks, fix the issue and repeat the testing process. Ensure that all hardware is dry before the system is powered on in order to prevent any damage.

WARRANTY

Our products are warranted against defects of materials and guality for a period of 24 months, starting with the date of delivery to the end-user. During this period, products will be repaired or have parts replaced at our discretion, provided that 1) the product is returned to the agent from whom it was purchased; 2) the product has been purchased by the end-user and has not been used for commercial purposes; 3) the product has not been misused, handled carelessly, or used in a manner other than the way described in the instruction's manual. This warranty does not confer rights other than those expressly set out above and does not cover any claims for consequential loss or damage. This warranty is offered as an extra benefit and does not affect your statutory rights as a consumer. This warranty is voided if the product comes in contact with aggressive UV additives or other improper liquids. EK Water blocks are sealed with a warranty-voiding circular label, proving the water block has withstood a pressure leak test. Removing the label will void the leak-free guarantee, but not the guarantee on the product itself. Any other RMA issues can be reported to EK Customer Support at www.ekwb.com/support for further analysis.

SUPPORT AND SERVICE

In case you need assistance or wish to order spare parts or a new mounting mechanism, please contact:

https://www.ekwb.com/customer-support/

For spare parts orders, refer to the page with "TECHNICAL SPECIFICATIONS AND WATER BLOCK PARTS" where you can find the EAN number of each part you might need.

Include the EAN number with quantity in your request. Mounting Mechanism EAN can be found under "BOX CONTENTS"

Thermal pads are readily available in the EK shop

SOCIAL MEDIA

F EKWaterBlocks



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- ekwaterblocks