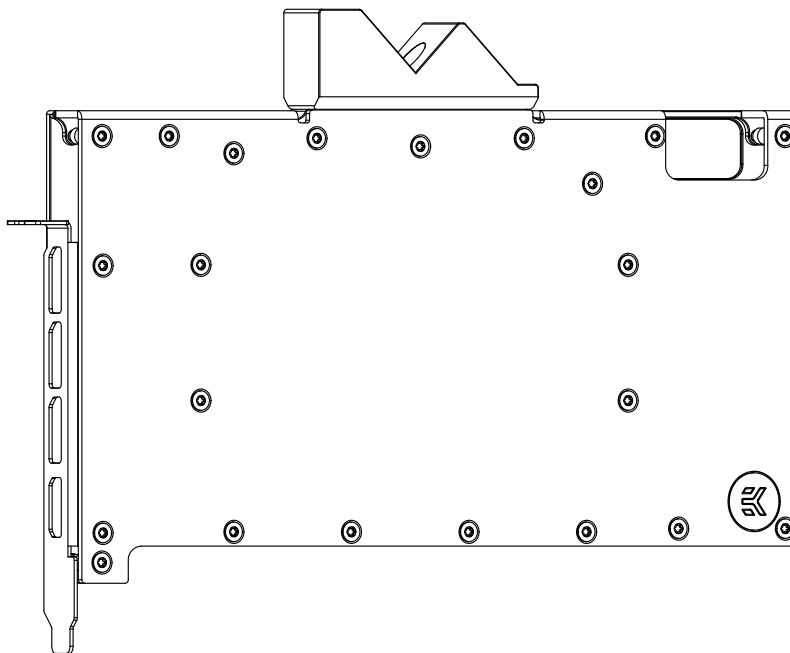


# EK-PRO GPU WB AMP/Trinity RTX 4090 - Ni + Inox

GPU WATER BLOCK  
EAN: 3831109903971



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

**Carefully read the manual before beginning with the installation process.**

**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).**

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

**The use of quality market-proven corrosion-inhibiting coolants is always strongly recommended for any liquid cooling system.**

**Do not use pure distilled water as a cooling liquid! For best results, EK recommends the use of EK-CryoFuel Coolants. Make sure to bleed air out of your water block thoroughly in order to reach optimal performance.**

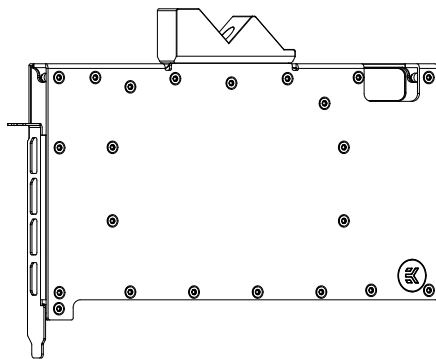
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# BOX CONTENTS

## 088-Mounting Trinity RTX 4090

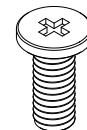
Note: There are additional screws in the mounting kit.



EK-Pro GPU WB AMP-Trinity RTX 4090 Ni+Inox



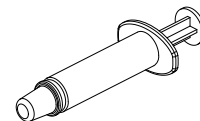
Screw M2.5 x 4 AX1 (12x)  
9047



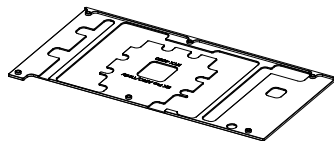
Screw M2.5 x 7 AX1 (10x)  
9049



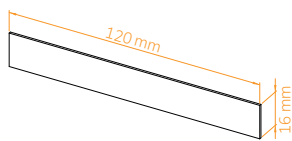
Washer POLYAMID M2.5 0.5mm  
(9x) 8623



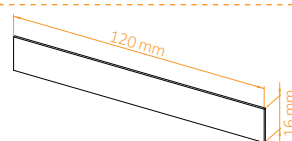
Thermal Grizzly Hydronaut (1g)  
(1x)



Zotac RTX Pro Backplate (1x)  
106478

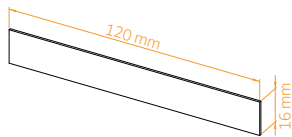


Thermal PAD F 1.0 mm - (120 x 16 mm)  
3830046996732 (2x)

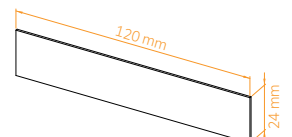


Thermal PAD F 1.5 mm - (120 x 16 mm)  
3830046996749 (2x)

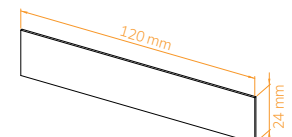
Screw size guide (1x) 103012



Thermal PAD F 2.0 mm - (120 x 16 mm)  
3830046996756 (1x)

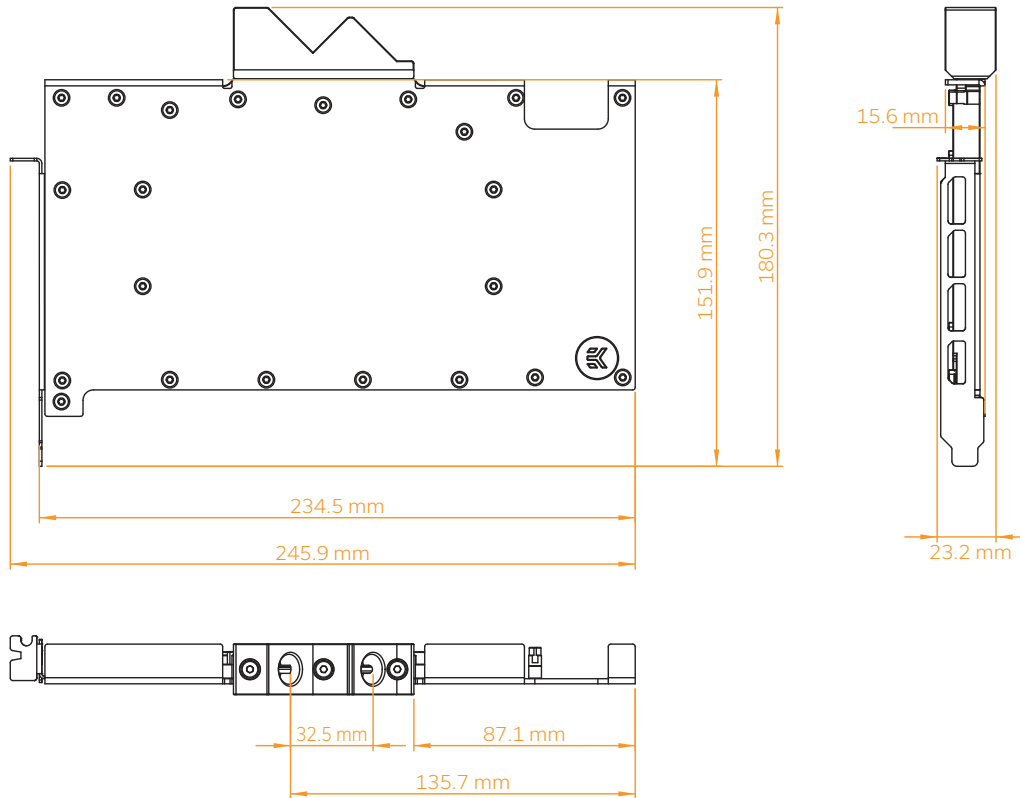


Thermal PAD G 0.5mm - (120 x 24 mm)  
3830046996763 (2x)

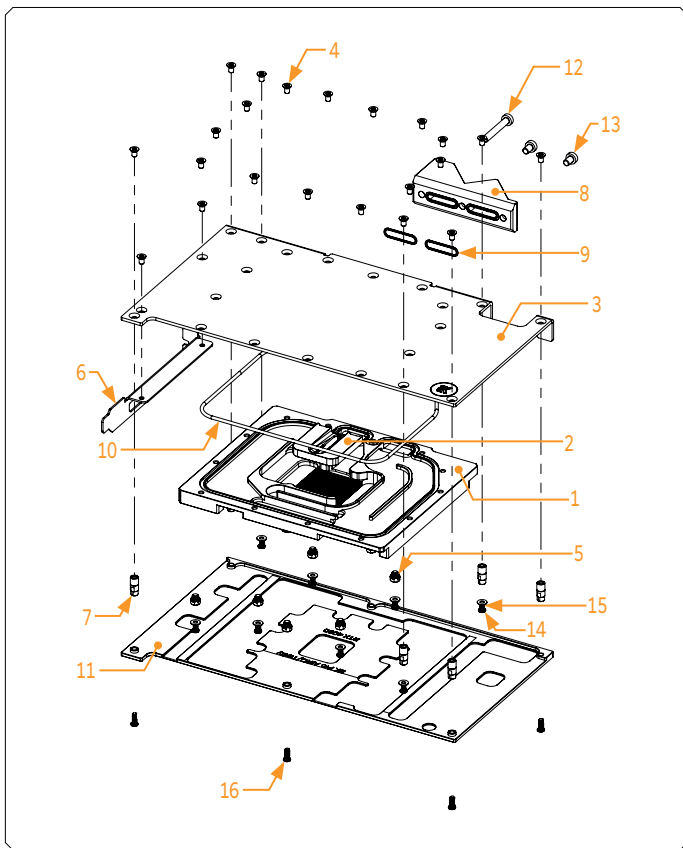


Thermal PAD G 2.0mm - (120 x 24 mm)  
3830046996794 (2x)

# WATER BLOCK DIMENSIONS

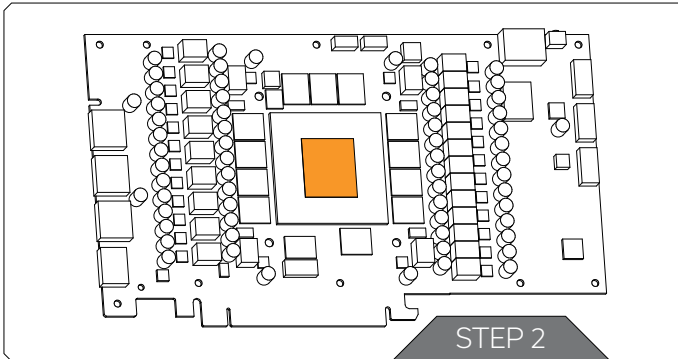


## TECHNICAL SPECIFICATIONS AND WATER BLOCK PARTS



Position	EAN	Description	Quantity
1	106474	088 - baker - Zotac RTX 4090 Pro Coldplate TT (Ni)	1
2	106133	TOP Plexi - Vector <sup>2</sup> Insert R5	1
3	106475	088 - kovina - Zotac RTX 4090 Pro top TT	1
4	103089	vijak M3 x 5 ISO 14581 TX INOX	22
5	103988	Distancer M4-M2.5 x 3 mm Vector <sup>2</sup> (Nickel)	7
6	106359	088 - kovina - Pro GPU WB RTX 4090 IO Bracket (Nickel)	1
7	106357	Distancer M3-M2.5 x 12.3 Medenina Ni (female)	7
8	106439	Top Acetal - Pro Terminal GPU 45 deg G1-4 v2	1
9	5155	OR 15 x 1 EPDM50 (FC Terminal)	2
10	5111	OR 143 x 2	1
11	106478	088 - alu - Zotac RTX 4090 Pro Backplate TT (Bl. Elox)	1
12	100006	Vijak M4 x 27 DIN7984	1
13	9023	Vijak M4 x 6 DIN7984	2
14	9047	Vijak M2.5 x 4 3825040ax1	8
15	8623	Podložka POLYAMID M2.5 0.5 mm	8
16	9049	Vijak M2.5 x 7 3825040ax1	6

## PREPARING YOUR GRAPHICS CARD



### STEP 1

#### REMOVING THE STOCK COOLER

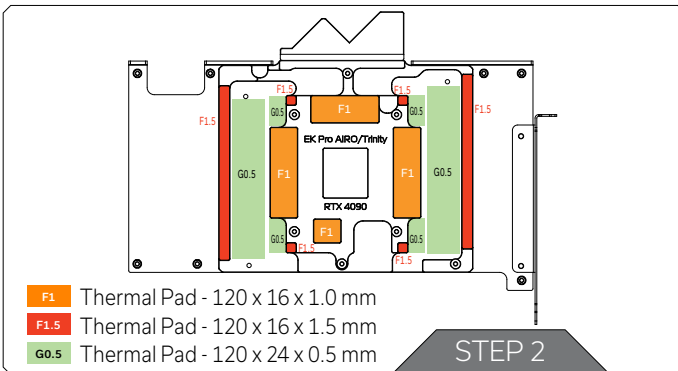
Place your graphics card on the flat surface and carefully remove the stock cooler. Do not forget to unplug all the LED and fan connectors. Pay attention to the following steps in order to install the **EK-Pro GPU WB AMP/Trinity RTX 4090 - Ni + Inox** water block onto the graphics card.

### STEP 2

#### CLEANING THE PCB

Wipe off the remains of the original thermal compound using a nonabrasive cloth or Q-tip, as shown in the sample image, until the components and circuit board are completely clean. EK recommends the use of denatured alcohol for removing TIM leftovers. After that, remove all remaining stock thermal pads from the PCB.

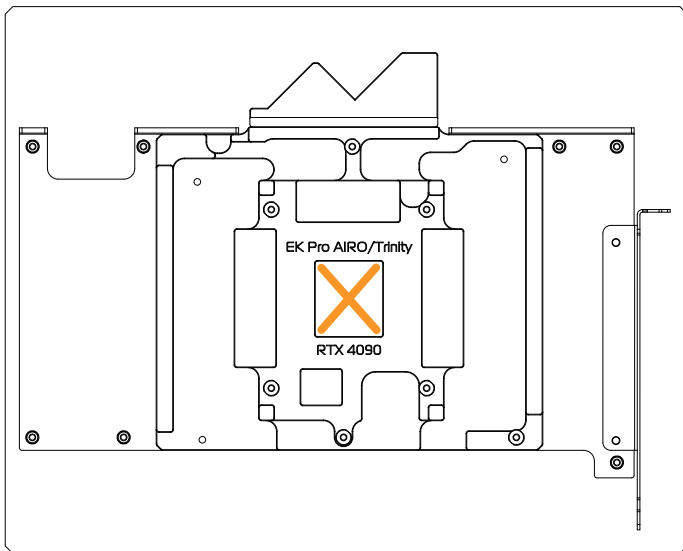
## CUTTING AND PLACING THERMAL PADS



Your GPU water block comes with un-cut thermal pads to cover all the VRM components, such as COILS, MOSFETs and drivers. Please use thermal pads which should be placed on the PCB as illustrated below.

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

## APPLYING THERMAL COMPOUND



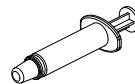
Apply the enclosed EK-TIM Ectotherm thermal grease (thermal compound) on the GPU heat spreader - IHS - as shown in the image. The layer of the thermal compound must be thin and even over the entire surface of the IHS.



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

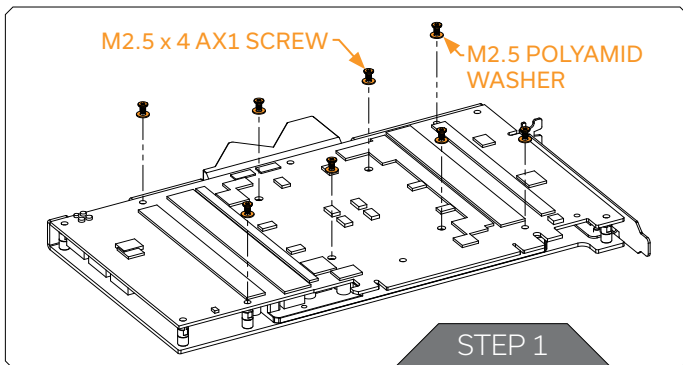
For this step, you will need:

Thermal Grease





## INSTALLING THE WATER BLOCK



### STEP 1

#### PLACING THE BLOCK ON THE GRAPHICS CARD

This procedure is the same for all full-cover water blocks. Carefully position the water block with preinstalled standoffs on the graphics card. During this process, make sure you have aligned mounting holes of the PCB with 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.

Mount it with (8) M2.5 x 4 AX1 screws.

For this Step, you will need:

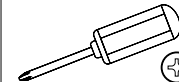
M2.5 x 4 AX1  
Screw (8 pcs)



Washer Polyamid  
M2.5 0.5 mm (8 pcs)

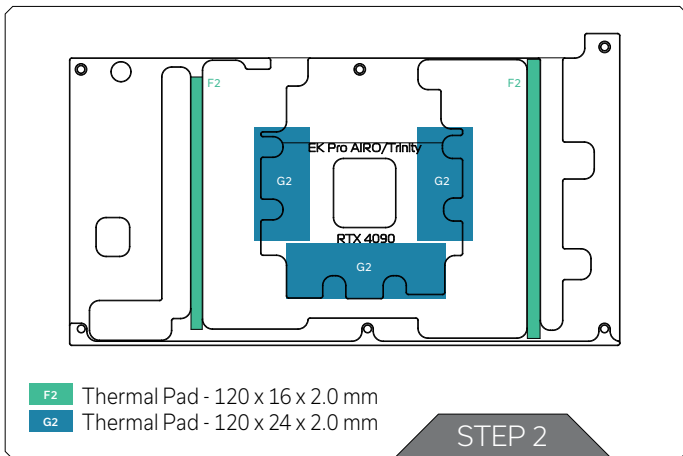


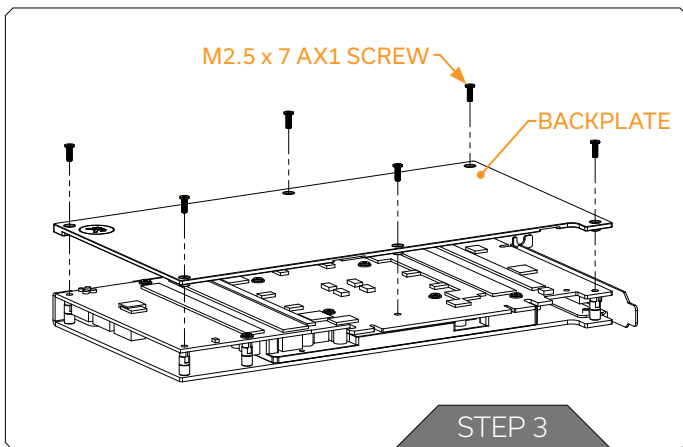
Phillips Head  
Screwdriver



### STEP 2

Install 2.0 mm thick thermal pads on the BP, as illustrated below to ensure better connection between graphic card and backplate. EK made sure to provide you with more than an adequate quantity of thermal pads to complete this Step.





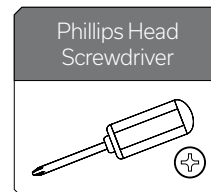
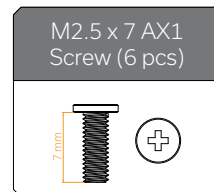
### STEP 3

#### ATTACHING THE BACKPLATE

Use six (6) M2.5 x 7 AX1 screws. Tighten the screws evenly using the Phillips head screwdriver.

The screws must be present on the places marked below:

For this Step, you will need:



## CHECKING THE CONTACT IN CASE OF HIGH TEMPERATURES

If necessary, temporarily remove the water block to check for uniform surface contact between the block and components. Pay special attention to the VRM section of the graphics card. Check whether the water block makes contact with the intended integrated circuit. Then repeat Steps from the previous section to re-attach the block.



In case you fail to obtain good contact, please check again or contact our support service at <https://www.ekwb.com/customer-support/>.

## 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.

## TESTING THE LOOP

To ensure the installation of EK components was successful, we recommend you perform a 24-hour leak test.

When your loop is complete and filled with coolant, connect the pump to a PSU outside your system. Do not connect power to any of the other components. Turn on the PSU and let the pump run continuously.

Inspect all parts of the loop, and in case the coolant leaks, fix the issue and repeat the testing process. To prevent possible damage, please ensure all hardware is dry before the system is powered on.

## 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

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