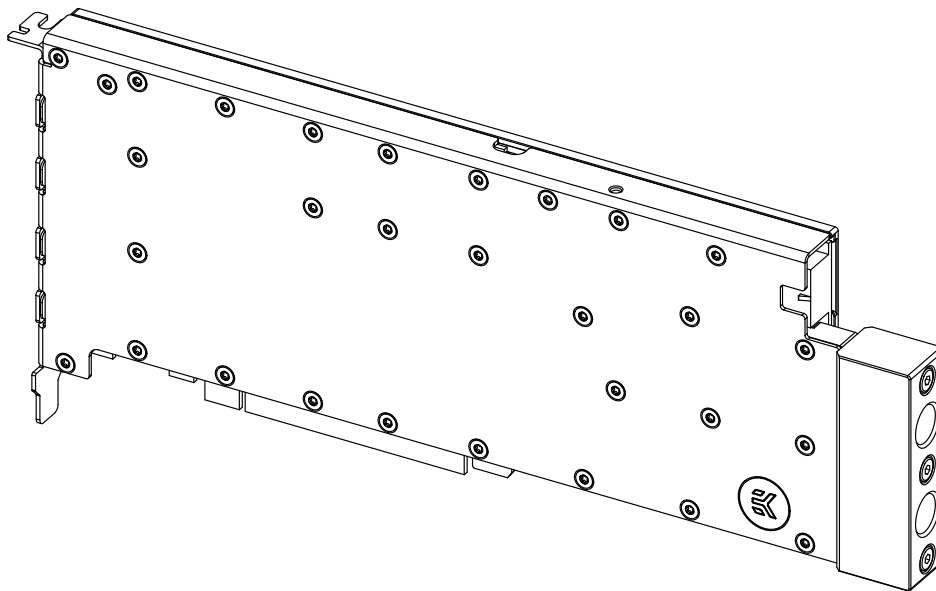


# EK-PRO GPU WB RTX 4090 Windforce V2 – Nickel Inox

GPU WATER BLOCK



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.**

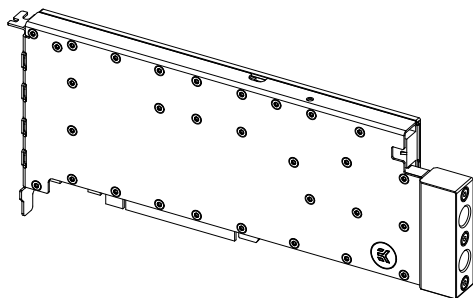
**The use of quality market-proven corrosion-inhibiting coolants is always strongly recommended for any liquid cooling system.**

**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.**

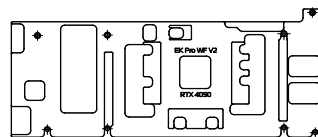
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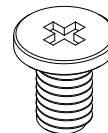
## BOX CONTENTS



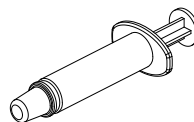
EK-Pro GPU WB RTX 4090 WindForce V2 - Nickel + Inox (1x)  
3831109912843



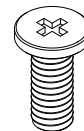
105 - alu - RTX 4090 WF V2  
Backplate (Bl. Elox) (1x) - 107697



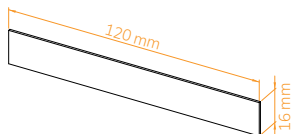
Screw M2.5x4 ax1 (7x)  
9047



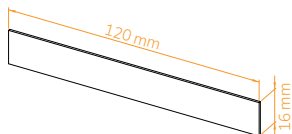
EK-Loop Thermal Paste NGP (1g) (1x)  
3831109910207



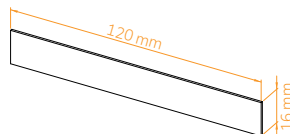
Screw M2.5 x 7 AX1 (8x)  
9049



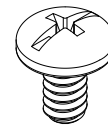
Thermal PAD F 1.0mm - (120x16mm)  
(5x) 3830046996732



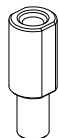
Thermal PAD F 1.5mm - (120x16mm)  
(3x) 3830046996749



Thermal PAD F 2.0mm - (120x16mm)  
(1x) 3830046996756

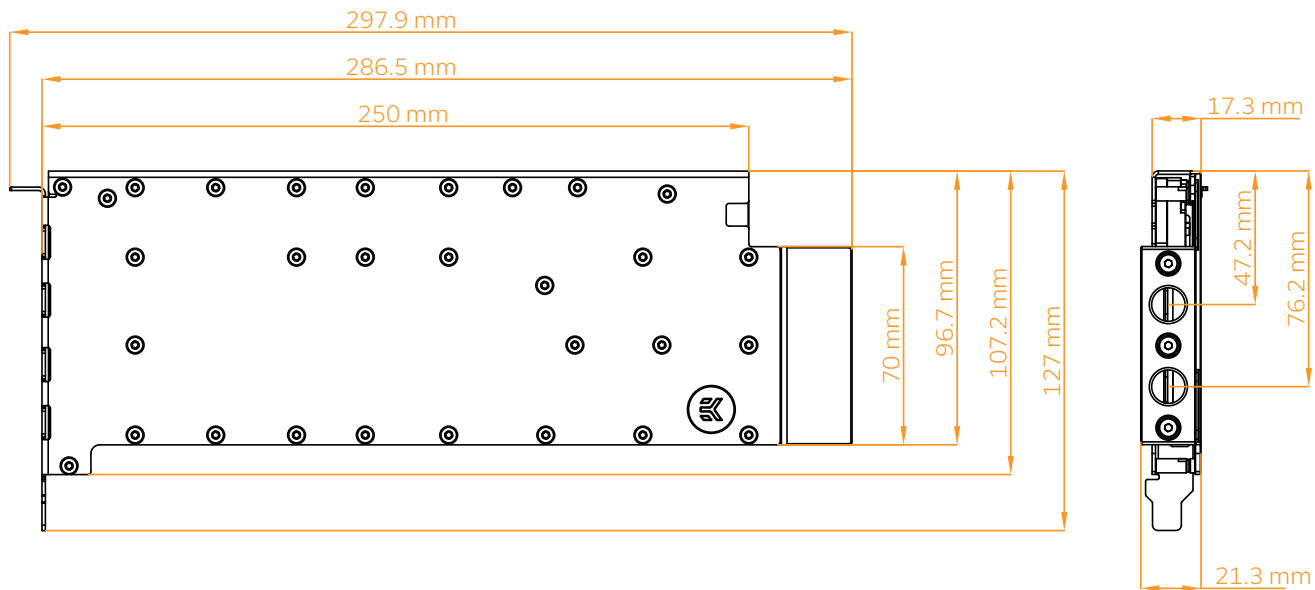


Screw UNC 6/32x5 (1x)  
8483

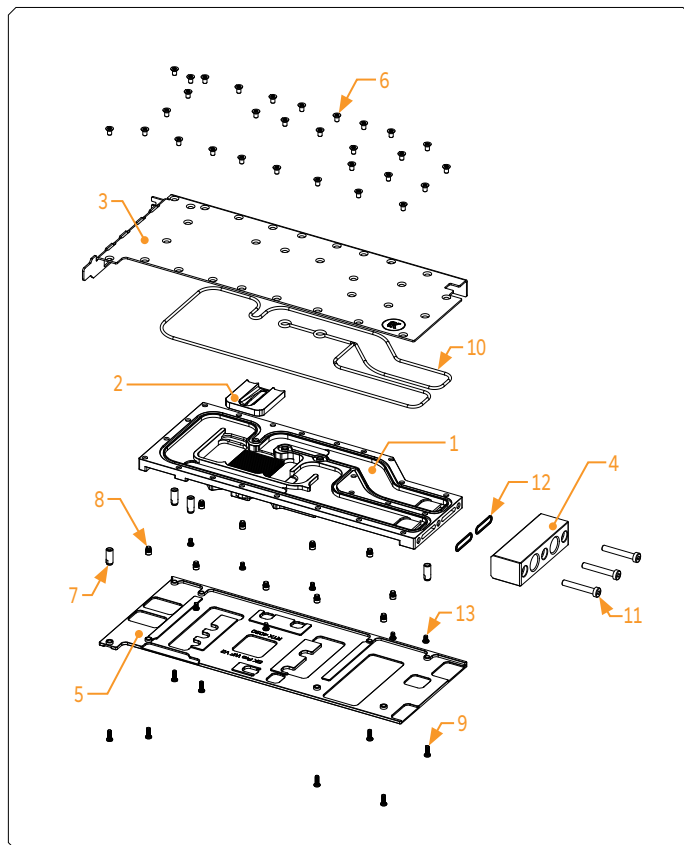


Medenina - Pro GPU Bracket standoff  
M4-6/32 - Ni (1x) - 102490

## WATER BLOCK DIMENSIONS

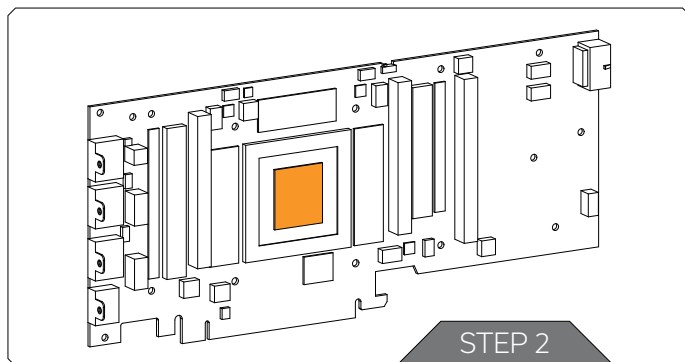


## TECHNICAL SPECIFICATIONS AND WATER BLOCK PARTS



Position	EAN	Description	Quantity
1	107691	105 - baker - RTX 4090 WF V2 Coldplate	1
2	106133	TOP Plexi - Vector <sup>®</sup> Insert R5	1
3	107693	105 - kovina - RTX 4090 WF V2 Top	1
4	103767	top acetal - FC terminal Direct (2x G1-4)	1
5	107695	105 - alu - RTX 4090 WF V2 Backplate	1
6	103089	vijak M3 x 5 ISO 14581 TX - INOX	30
7	107698	Distancer M3-M2.5 x 12.1 R4C Medenina (female)	4
8	103987	Distancer M3.5-M2.5 x 3 Medenina	11
9	9049	Vijak M2.5 x 7 3825040ax1	8
10	107694	105 - OR - RTX 4090 WF V2	1
11	100006	Vijak M4 x 27 DIN7984	3
12	5155	OR 15 x 1 EPDM50 (FC Terminal)	2
13	9047	Vijak M2.5 x 4 3825040ax1	7

## PREPARING YOUR GRAPHICS CARD



### STEP 1

#### REMOVING THE STOCK COOLER

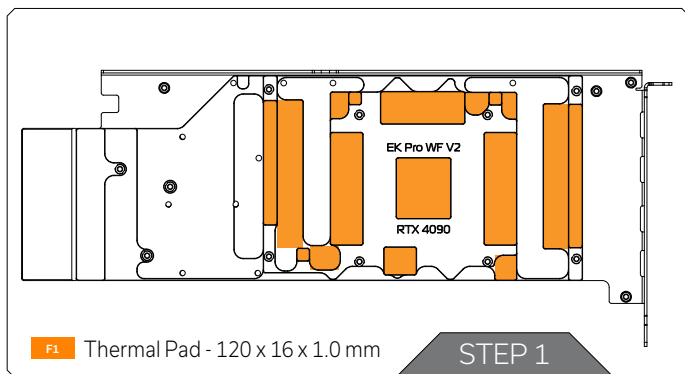
Place your graphics card on the flat surface and carefully remove the stock cooler. Do not forget to unplug all the LED and fan connectors. Pay attention to the following steps in order to install the **EK-Pro GPU WB RTX 4090 WindForce V2** block onto the graphics card.

### 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



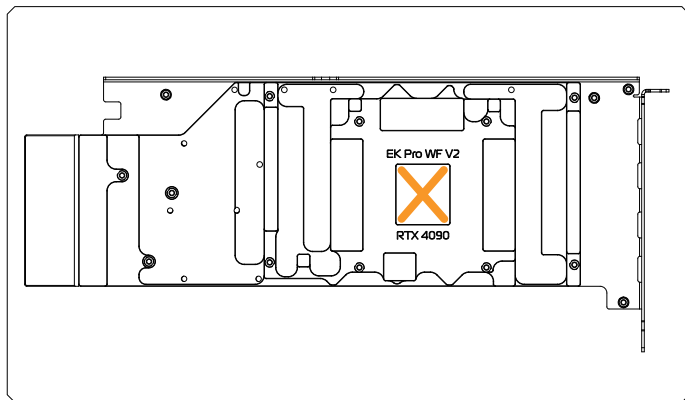
### STEP 1

Your GPU water block comes with uncut thermal pads to cover all the VRM components, such as coils, MOSFETs, and drivers. Please use 1.0 mm thick thermal pads which should be placed on the PCB, as illustrated below. EK made sure to provide you with more than an adequate quantity of thermal pads to complete this Step.



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

## APPLYING THERMAL COMPOUND



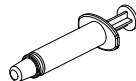
Apply the enclosed EK-Loop Thermal Paste NGP (thermal compound) on the GPU heat spreader – IHS – as shown in the image. The layer of the thermal compound must be thin and even over the entire surface of the IHS.



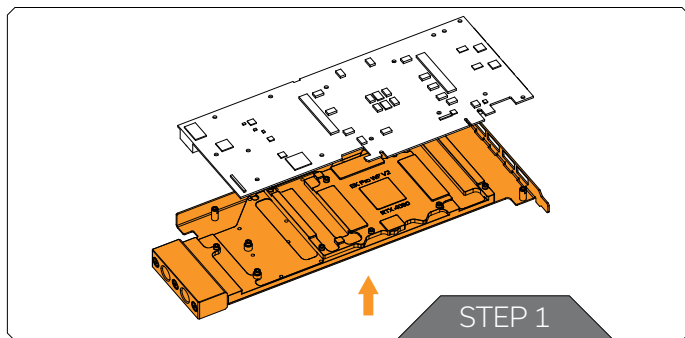
The excessive or uneven application of thermal grease may lead to poor performance!

For this step, you will need:

Thermal Grease



## INSTALLING THE WATER BLOCK



### STEP 1

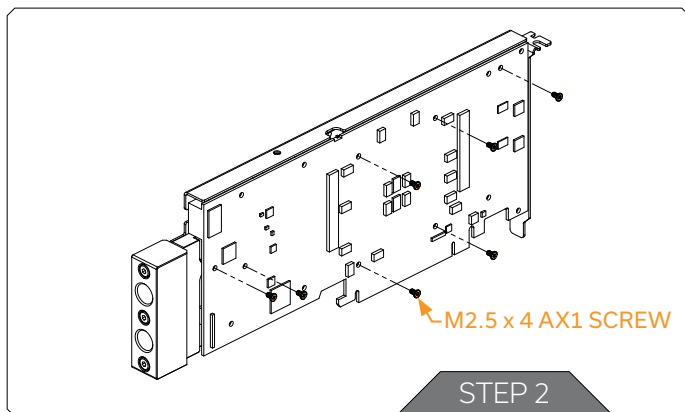
#### PLACING THE BLOCK ON THE GRAPHICS CARD

This procedure is the same for all full-cover water blocks. Carefully position the 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.

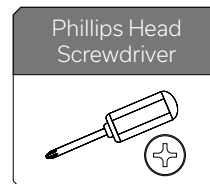
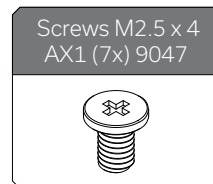




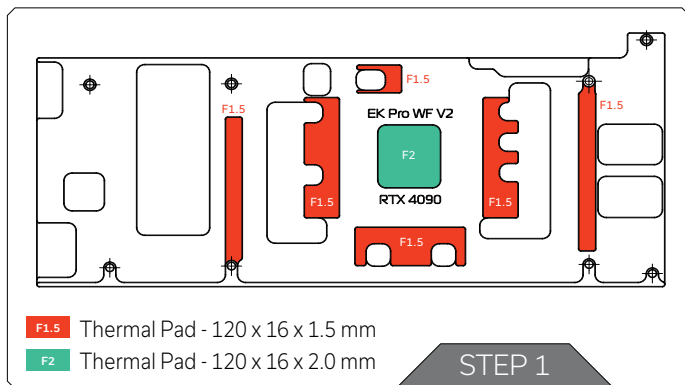
## STEP 2

Use seven (7) 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.

For this step, you will need:

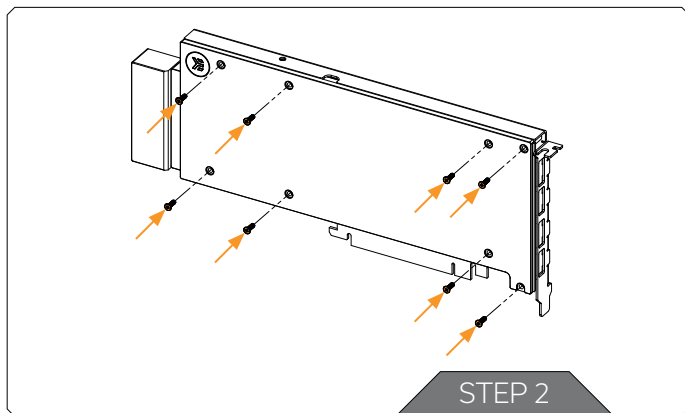


## INSTALLING THE BACKPLATE



## STEP 1

Install 1.5 mm and 2.0 mm thick thermal pads on the Backplate as illustrated, 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 2

### ATTACHING THE BACKPLATE

Use eight (8) M2.5 x 7 AX1 screws. Tighten the screws evenly using the Phillips head screwdriver.

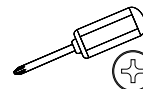
The screws must be present on the places marked on the picture.

For this step, you will need:

Screws M2.5 x 7  
AX1 (7x) 9049



Phillips Head  
Screwdriver



## 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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