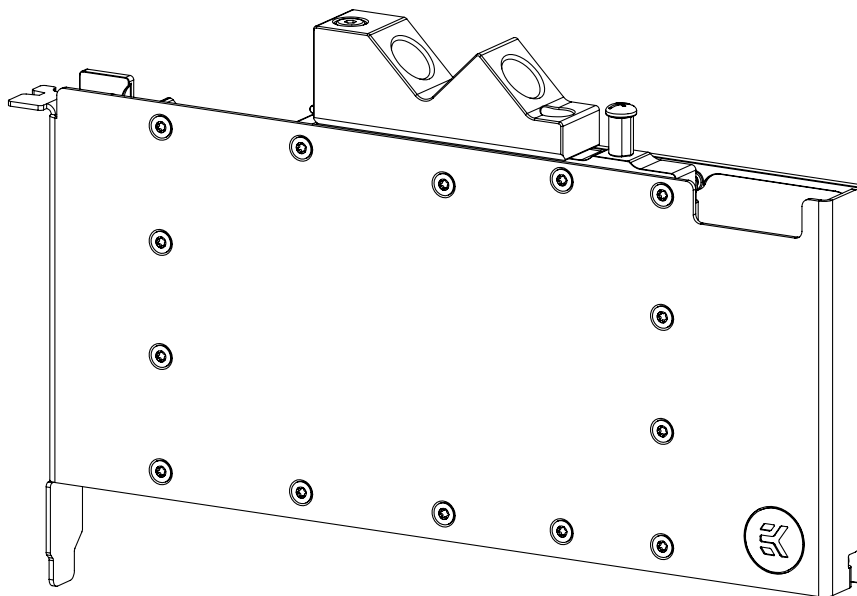# EK-PRO
GPU WB RE RTX 3080/3090 - Ni + Inox

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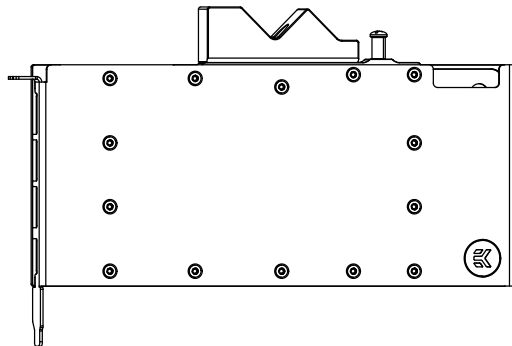
The use of quality market-proven corrosion-inhibiting coolants is always strongly recommended for any liquid cooling system.

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.
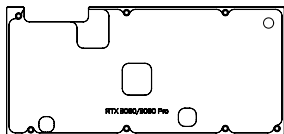
TABLE OF CONTENTS
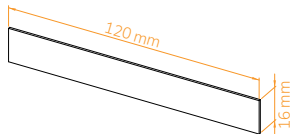
BOX CONTENTS

EK-Pro GPU WB RTX 3080/3090 Ni +Inox

Alu-Pro GPU WB RTX 30x0
Backplate - Black Elox (1x) 103813

Thermal PAD F 1.0 mm - (120 x1 6 mm)
(7x) 3830046996732

120 mm

16 mm

Screw M2.5 x 4 ax1 (6x)
9047
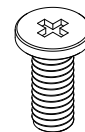
Screw M2.5 x 8 ax1 (8x)
8104A

Washer POLYAMID M2.5 0.5mm
(6x) 8623

Thermal Grizzly Hydronaut (1g)
(1x) 3830046998447

Allen Key 2 mm (1x) 8901

Screw size guide (1x) 103012

WATER BLOCK DIMENSIONS

99.6 mm

126.6 mm

112 mm

125.6 mm

152.6 mm

219.3 mm

230.3 mm

18.8 mm

21.8 mm

TECHNICAL SPECIFICATIONS AND WATER BLOCK PARTS

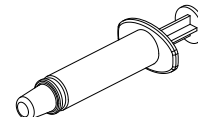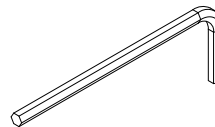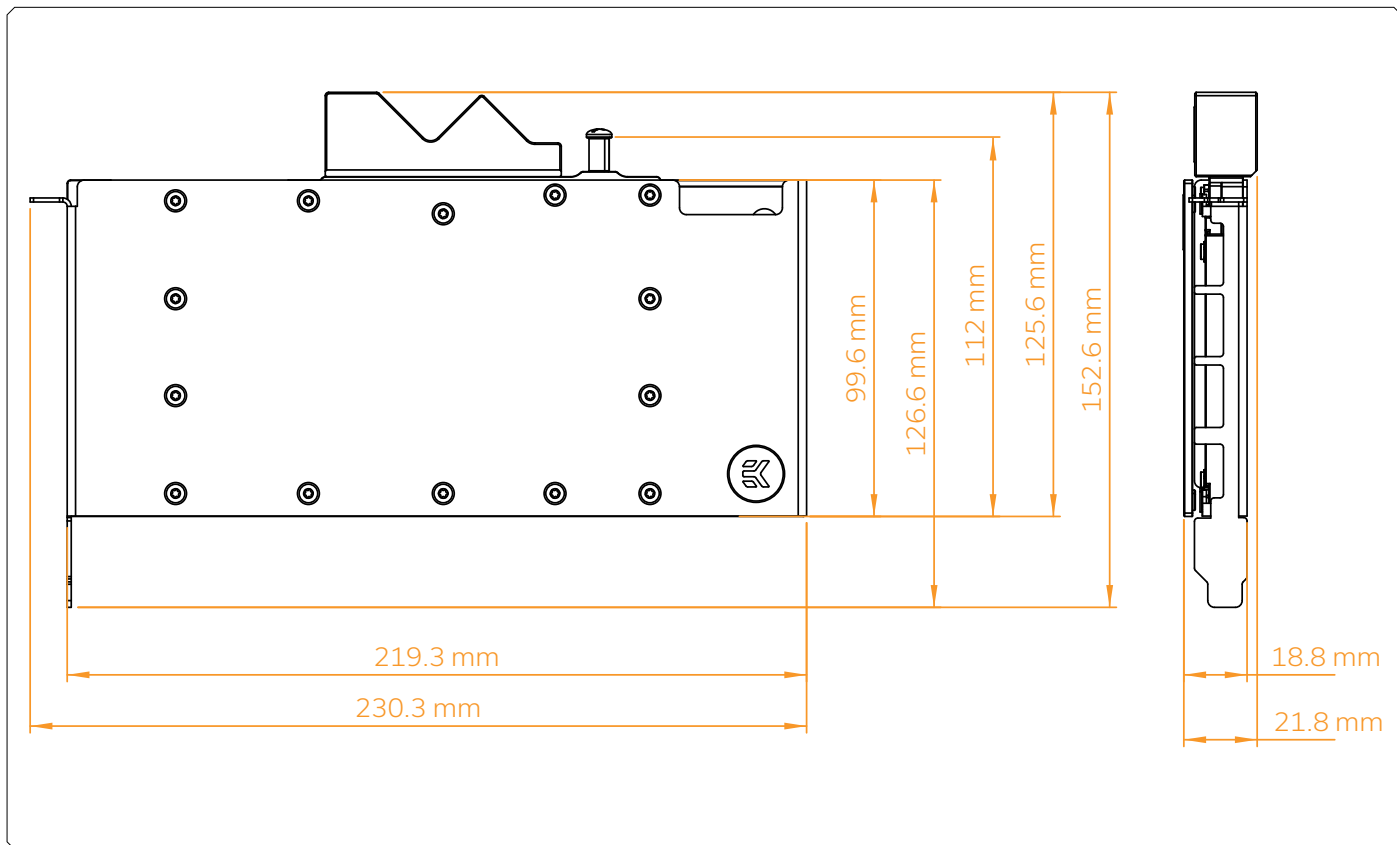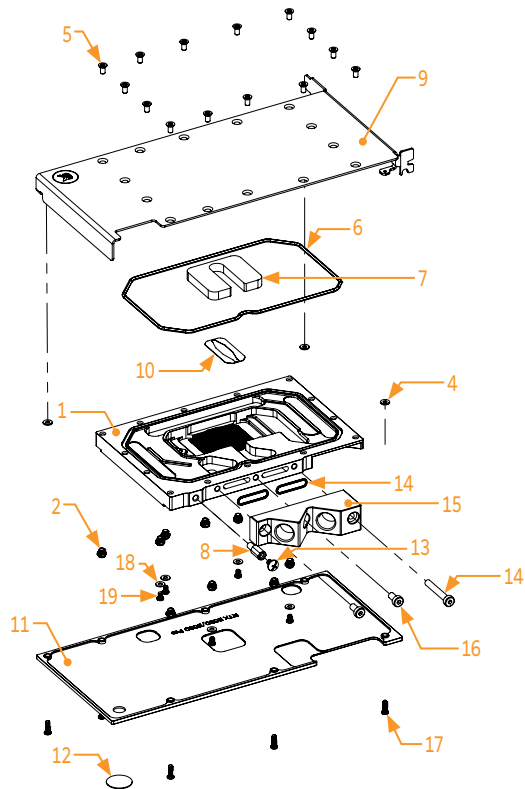| Position	EAN	Description	Quantity
1	103757	Copper – Pro GPU WB RTX 3080-3090 Coldplate (Ni)	1
2	100845	Standoff M4/M2.5 x 2.5 - HEX	9
3	8627	Washer POIYAMID M2.5 0.7 mm	3
4	100006	Screw M4 x 27 DIN7984	1
5	103090	Screw M3 x 6 ISO 14581 TX – inox	14
6	102931	OR Vector RE 30x0	1
7	101975	029 – top plexi – FC-Quadro RTX 8000 Pro - insert	1
8	102490	Brass – Pro GPU bracket standoff M4-6/32 - Ni	1
9	103758	Metal – Pro GPU WB RTX 3080-3090 Top inox	1
10	102549	Metal – Pro GPU WB Jet	1
11	103812	Alu – Pro GPU WB RTX 30x0 backplate	1
12	100663	EK RGB Badge	1
13	8483	ISO 7380 – UNC 6-32 x 5	1
14	5155	OR 15 x 1 EPDM50 (FC Terminal)	2
15	3674	Top Acetal – FC Terminal M4 Pre-filled	1
16	9013	Screw M4 x 8 DIN7984	2
17	8104A	Screw M2.5 x 8ax1	7
18	8623	Washer Polyamid M2.5 0.5 mm	5
19	9047	Screw M2.5 x 4ax1	5

PREPARING THE 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 30x0** 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.

STEP 2
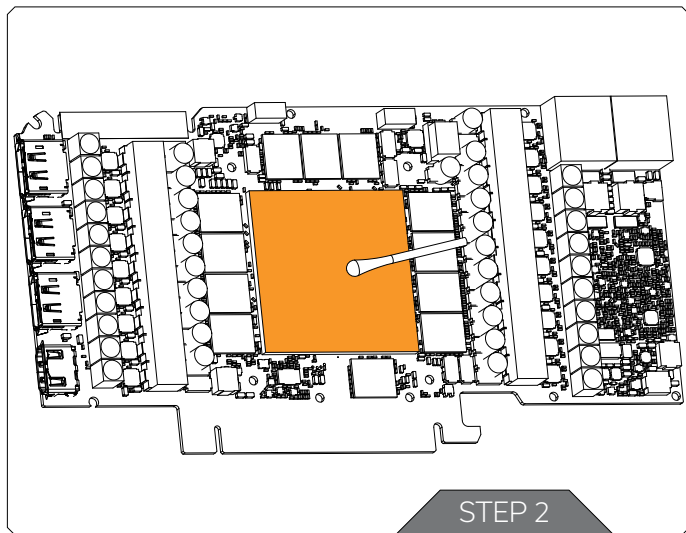
CUTTING AND PLACING THERMAL PADS


Thermal Pad F 1.0 mm

EK Pro FC RTX 30X0
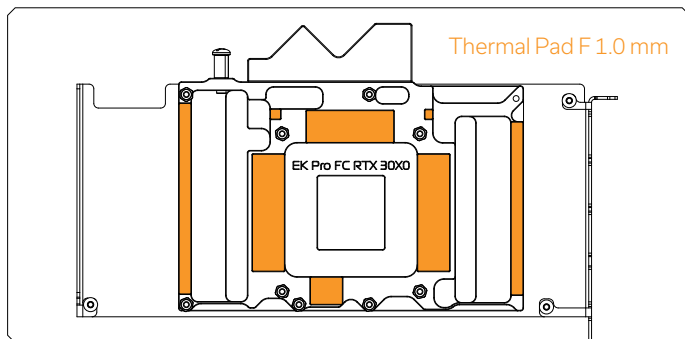
Your GPU water block comes with un-cuted thermal pads to cover all the VRM components, such as COILs, MOSFETs, and drivers. Please use 1.0mm thick thermal pads which should be placed on the PCB, as illustrated below. EK made sure to provide you with more than an adequate quantity of thermal pads to complete this Step.
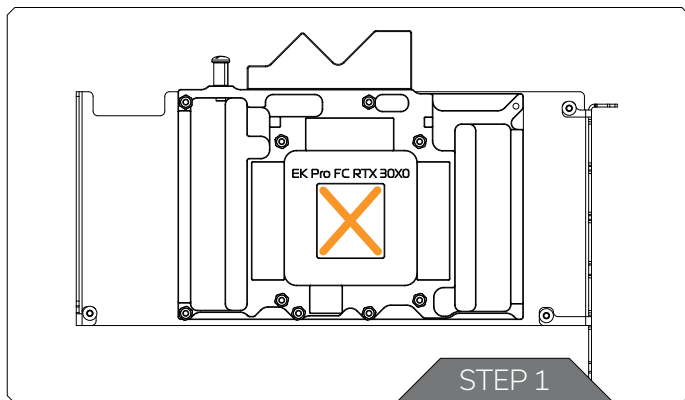
For this Step, you will need:

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

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

120 mm
16 mm
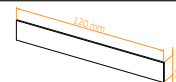
APPLYING THERMAL COMPOUND
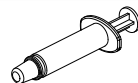

EK Pro FC RTX 30X0

STEP 1

STEP 1
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.
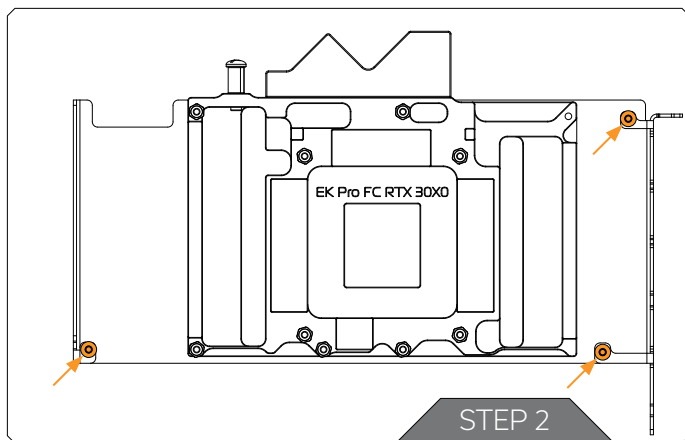
⚠ The excessive or uneven application of thermal grease may lead to poor performance!

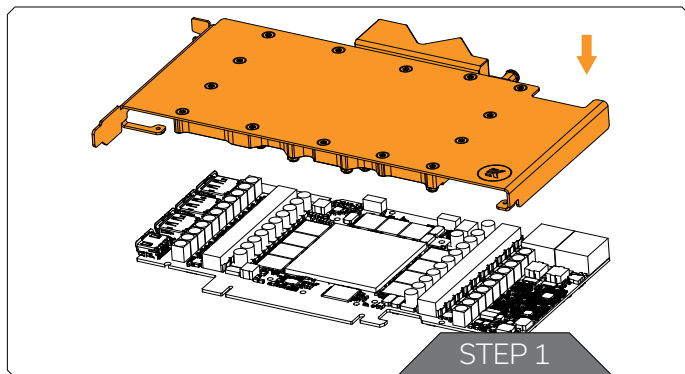For this Step, you will need:

Thermal Grease

STEP 2

STEP 2
Make sure that three (3) the self-adhesive M2,5 plastic washers are in place as shown in picture.

⚠ Pay attention to the front area, where I/O ports are, those metal springs may get in the way when inserting, holes on PCB and block needs to be perfectly aligned!

# INSTALLING THE WATER BLOCK

STEP 1

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.

M2.5 x 4 AX1 SCREW

M2.5 PVC WASHER
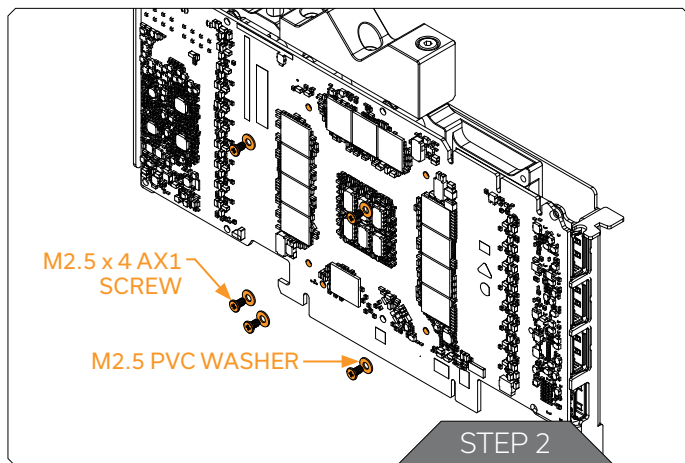
STEP 2

STEP 2

To mount the graphics card onto the waterblock, stock cross backplate needs to be use. Attach it with five (5) M2.5 Washers and M2.5 X 4 AX1 screws.
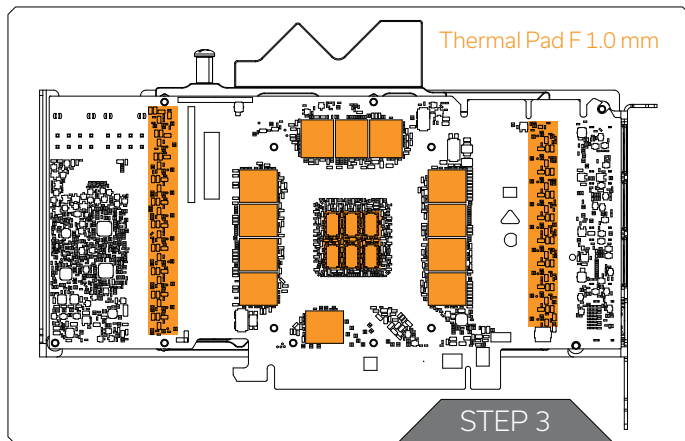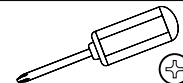
For this Step, you will need:

| Screw M2.5 x 4 ax1 (5x) 9047	Washer POLYAMID M2.5 0.5mm (5x) 8623	Phillips Head Screwdriver

Thermal Pad F 1.0 mm

STEP 3

STEP 3

Install 1.0mm thick thermal pads on the PCB, 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.

For this Step, you will need:

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

120 mm
16 mm
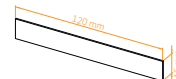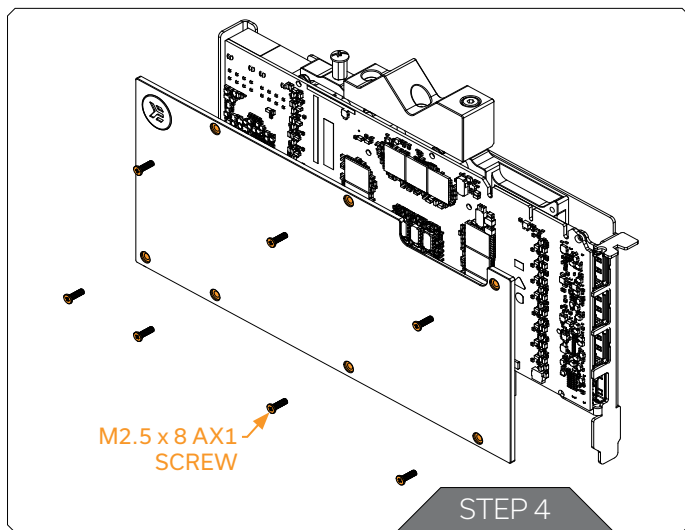
STEP 4
ATTACHING THE BACKPLATE
Use seven (7) M2.5 x 8 AX1 screws. Tighten the screws evenly using the Phillips head screwdriver.
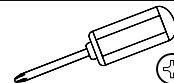
The screws must be present on the places marked below:

For this Step, you will need:

Screw M2.5 x 8 ax1 (7x) 8104A	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

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