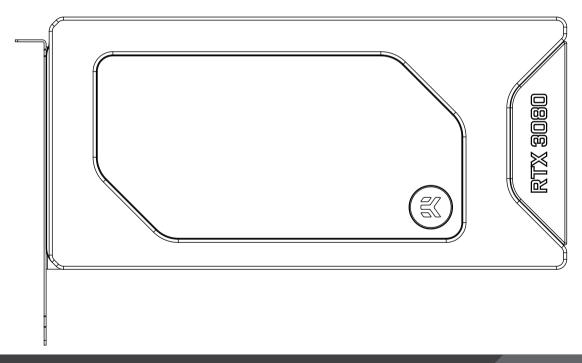
EK-Quantum Vector FE RTX 3080

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.

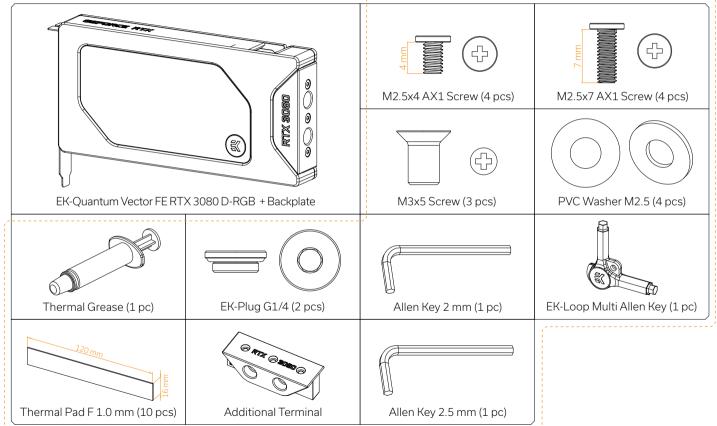
Make sure to bleed air out of your water block thoroughly to reach optimal performance.

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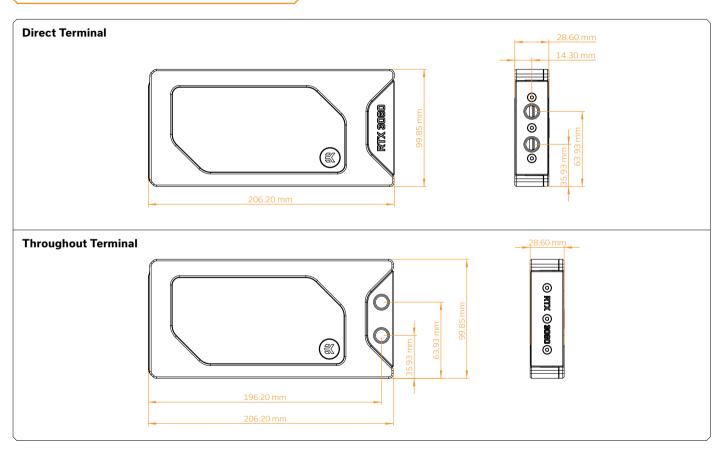
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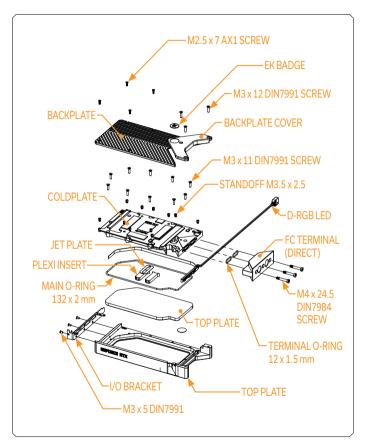
Universal Mounting Mechanism - You may not need every screw from this package.



WATER BLOCK DIMENSIONS



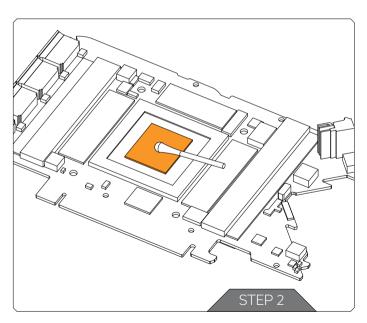
TECHNICAL SPECIFICATIONS AND MAIN WATER BLOCK PARTS



Technical Specification:

- Dimensions (LxHxW): 206 x 100 x 29 mm
- D-RGB (Addressable RGB) Cable Length: 500 mm
- D-RGB LED Count: 20
- D-RGB Connector: Standard 3-Pin (+5V, Data, Blocked, Ground)

PREPARING THE GRAPHICS CARD



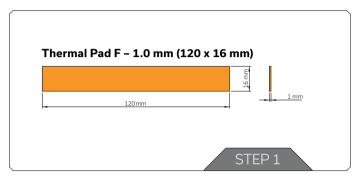
STEP 1 REMOVING THE STOCK COOLER

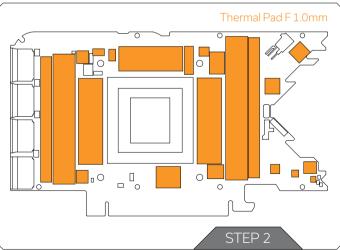
Place your graphics card on the flat surface and carefully remove the stock cooler. Do not forget to unplug all the LED and fan connectors. Pay attention to the following steps when installing the EK-Quantum Vector FE RTX 3080 water block onto your graphics card.

STEP 2 CLEANING THE PCB

Carefully detach the original stock cooler after removing all screws that are securing it to the board. 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.

CUTTING AND PLACING THERMAL PADS





STEP 1

Your 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.



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

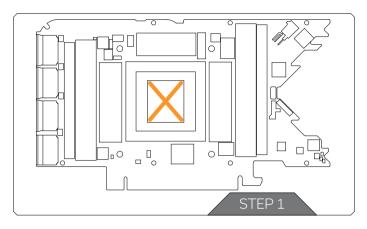
Replacement thermal pads:

10x Thermal Pad F 1.0mm - (120 x 16 mm) EAN: 3830046996732

STEP 2

Once cut to size, thermal pads 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.

APPLYING THERMAL COMPOUND



STEP 1

Apply the enclosed EK-TIM Ectotherm thermal grease (thermal compound) on the CPU 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.

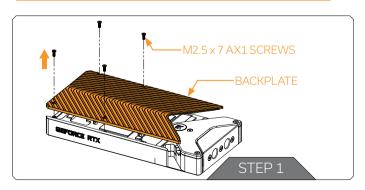


The excessive or uneven application of thermal grease may lead to poor performance!

For this Step, you will need:

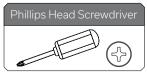


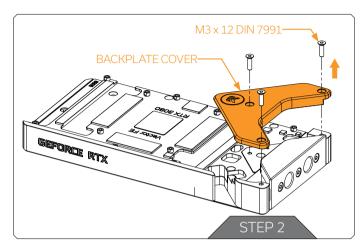
INSTALLING THE WATER BLOCK



STEP 1 REMOVING THE STOCK BACKPLATE

Carefully unscrew four (4) preinstalled backplate screws (M2.5 \times 7 AX1) and remove the backplate, as shown in the picture. Save the screws and backplate for later use.



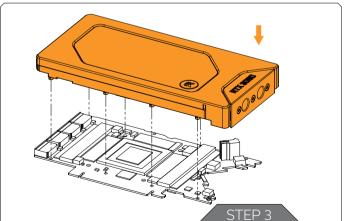


STEP 2 REMOVING THE STOCK BACKPLATE COVER

After removing the backplate, unscrew the three (3) backplate cover screws as shown in the picture, using the enclosed Allen Key (2 mm), and take off the backplate cover. Save the screws and cover for later use.

For this Step, you will need:





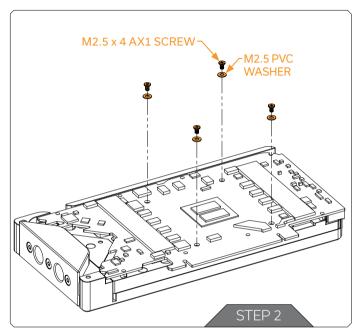
STEP 3 PLACING THE BLOCK ON THE GRAPHICS CARD

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 (the same applies to other tops).

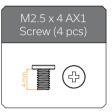


Pay attention not to use too much force when pressing the block down to the PCB since chip dies are prone to cracking.



STEP 4 ATTACHING THE BLOCK TO THE GRAPHICS CARD

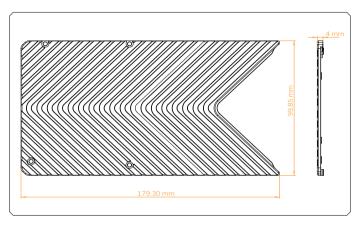
Use four (4) M2.5 X 4 AX1 screws and M2.5 PVC washers, as shown in the image. Tighten the screws around the GPU core evenly using the Phillips head screwdriver. Always use a plastic washer under each screw!



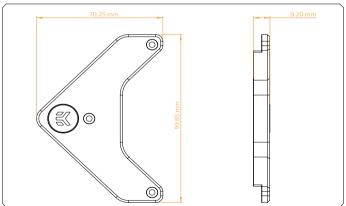




INSTALLING THE BACKPLATE



BACKPLATE DIMENSIONS



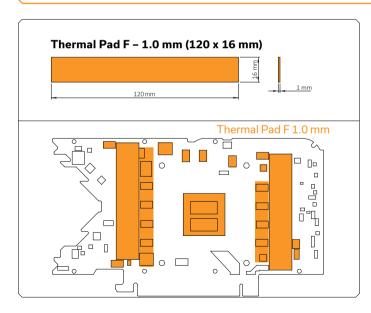
BACKPLATE COVER DIMENSIONS

REQUIRED TOOLS





CUTTING AND PLACING THERMAL PADS



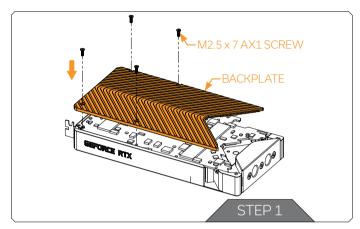
Your backplate comes with thermal pads that have to be cut into smaller pieces to cover all the VRM components. EK made sure to provide you with more than an adequate quantity of thermal pads to complete this Step.



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

Once cut to size, thermal pads should be placed on the backplate, as shown in the image.

ATTACHING THE BACKPLATE

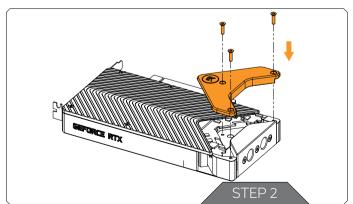


STEP 1 Place the

Place the backplate on the PCB and make sure all holes are aligned. Position an M2.5 x 7 AX1 screw in each of the three (4) mounting holes (as shown in the image) and tighten them evenly with a Phillips Head Screwdriver.

For this Step, you will need:





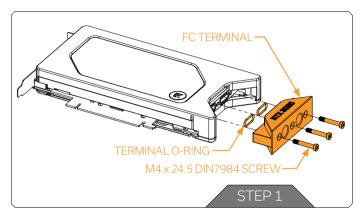
STEP 2

After securing the backplate, place the backplate cover on the PCB and make sure all holes are aligned. Position an M3 X 12 DIN7991 screw in each of the three (3) mounting holes (as shown in the image) and tighten them evenly with a Allen Key 2mm. **Do not use excessive force!**





REPLACING THE TERMINAL (Optional Step)



With the EK-Quantum Vector FE RTX 3080 water block, you also get an additional terminal. Follow these steps to install it.

STEP 1

Unscrew three (3) M4X24.5 DIN7984 terminal screws with the enclosed 2.5mm Allen Key. Remove the stock terminal. Save the screws and terminal O-Rings for later.

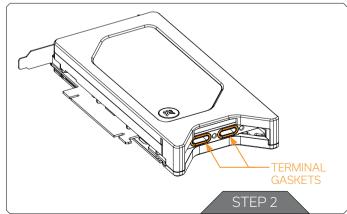
For this Step, you will need:

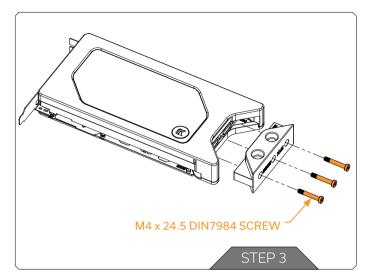


STEP 2

Before you attach the new terminal, make sure that terminal gaskets are placed inside holes on the coldplate (as shown in the picture).







STEP 3

Carefully place the terminal on the coldplate and secure it with previously saved M4 X 24.5 DIN7984 screws. Do not use excessive force when tightening the screws.

For this Step, you will need:







CHECKING FOR CONTACT

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/.

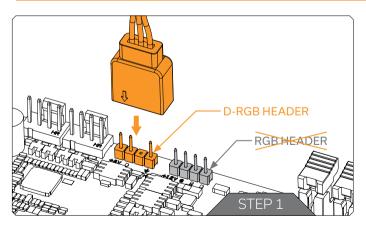
INSERTING THE GRAPHICS CARD INTO THE CHASSIS

Carefully lift your graphics card with the installed water block and insert it into your PC's motherboard PClexpress expansion slot. Please bear in mind that your graphics card is very likely 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.

CONNECTING THE D-RGB LED STRIP



STEP 1

Plug the **4-pin D-RGB** connector from the GPU water block to the **D-RGB Header** on your motherboard or controller. The LED strip will work only if the pin layout on the header is as follows: **+5V, Data, Empty, Ground**.



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

TESTING THE LOOP

To make sure 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 of 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 that all hardware is dry before the system is powered on.

SUPPORT AND SERVICE

In case you need assistance, please contact: https://www.ekwb.com/customer-support/

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SOCIAL MEDIA

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- **d** ekwaterblocks
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