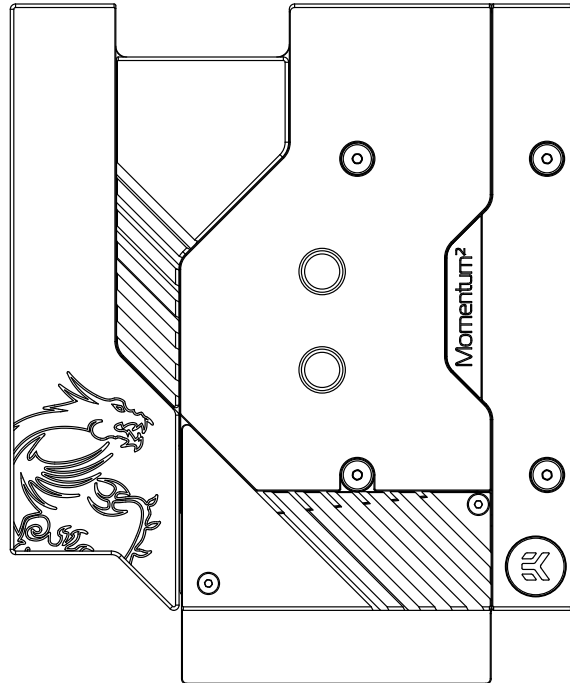


EK-Quantum MSI MPG X670E CARBON EK X D-RGB

MONOBLOCK



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 motherboard from the computer for the safest mounting process to prevent any possible damage.

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!

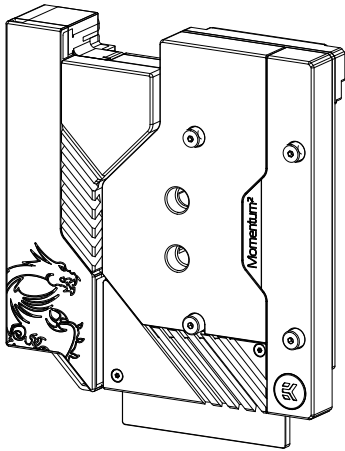
Do not use pure distilled water!

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!

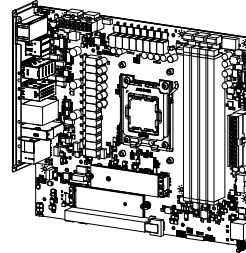
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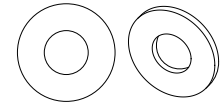
EK-Quantum MSI MPG X670E CARBON EK X D-RGB



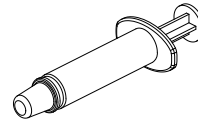
MSI MPG X670E CARBON WIFI
Motherboard



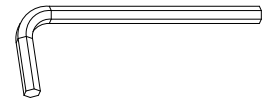
M2.5 x 4 AX1 Screw (5 pcs)



PVC Washer M2.5 (5 pcs)



Thermal Grease (1 pc)



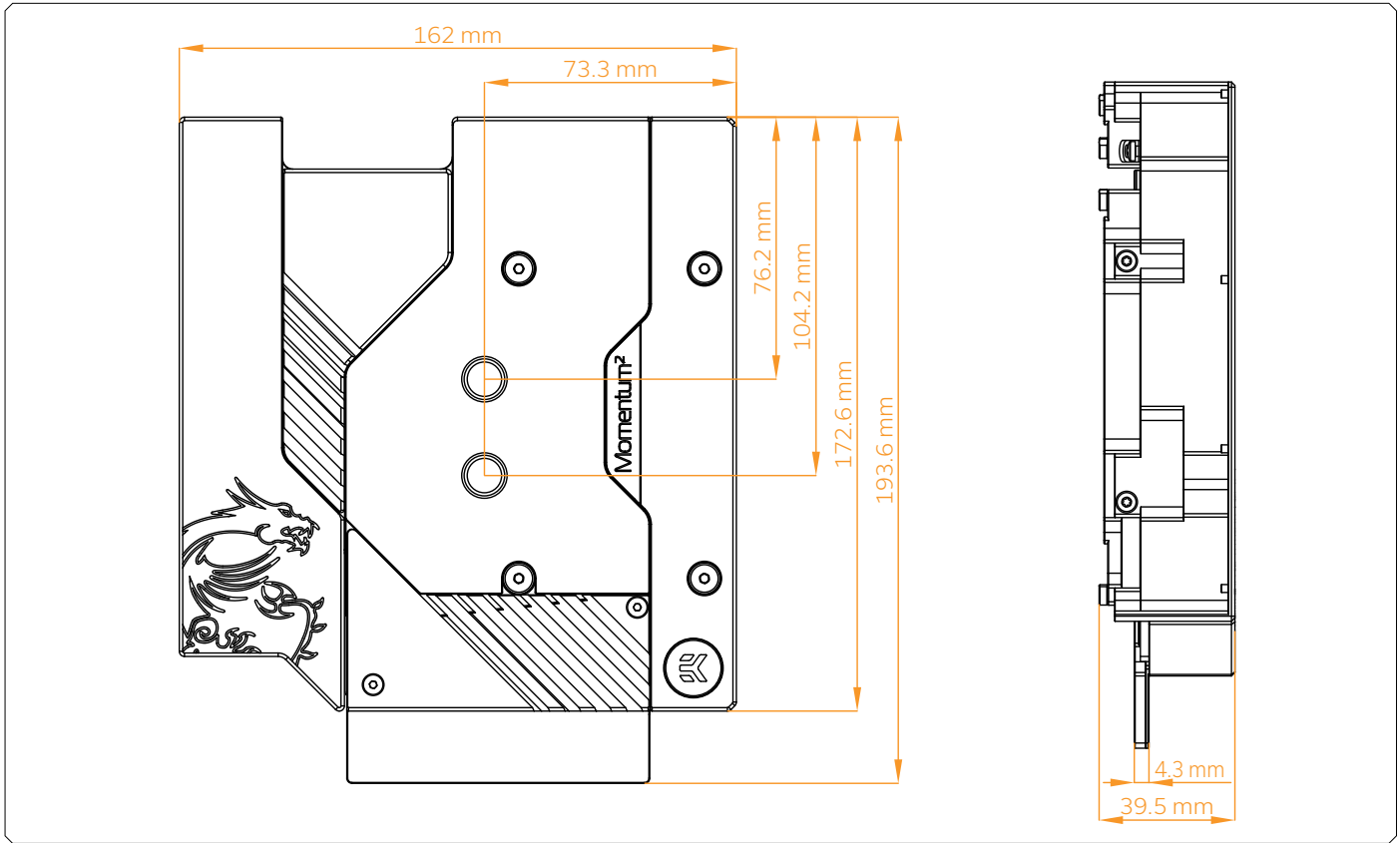
Allen Key 2.5 mm (1 pc)



Allen Key 2 mm (1 pc)

EAN: 3831109901366

WATER BLOCK DIMENSIONS



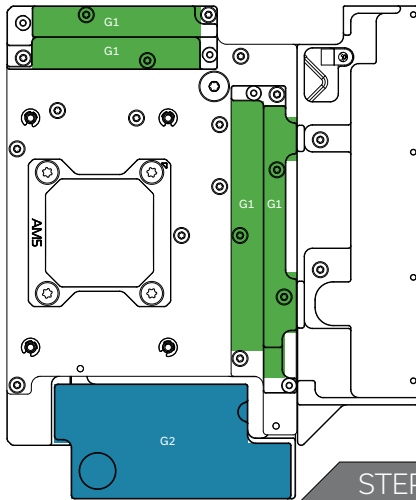
PREPARING THE WORKPLACE



Important! Before starting, make sure to have a clean, flat surface to work on. It is recommended that you put foam or soft material to lay a motherboard and water block on.

CUTTING AND PLACING THERMAL PADS

- G1** Thermal Pad - 120 x 24 x 1 mm
- G2** Thermal Pad - 120 x 24 x 2 mm



STEP 1

EK-Quantum MSI MPG X670E CARBON EK X D-RGB water block comes with Thermal Pads that have to be cut into smaller pieces to cover all the regulation areas (Mosfet) on the motherboard. EK made sure to provide you with more than an adequate quantity of Thermal Pads to complete this Step.

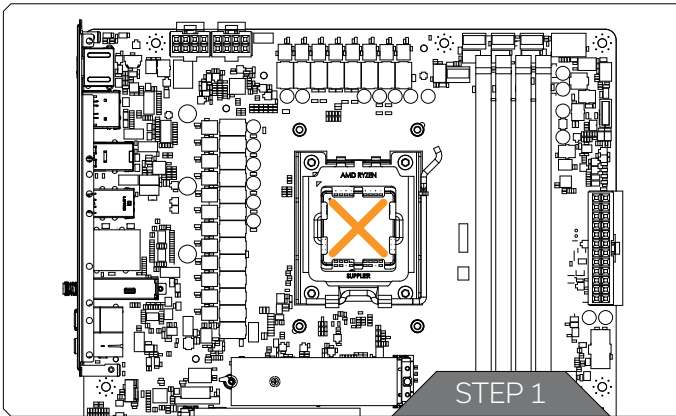
Remove the protective foil from both sides of the thermal pads prior to installation!

Replacement thermal pads:

Thermal PAD G 1.0 mm - (120 x 24 mm) - 3830046996732

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

APPLYING THERMAL COMPOUND



STEP 1

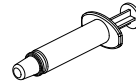
Apply the enclosed thermal grease (thermal compound) on the CPU heat spreader - IHS - and other necessary components as shown in the image. The layer of the thermal compound must be thin and even in thickness over the entire surface.



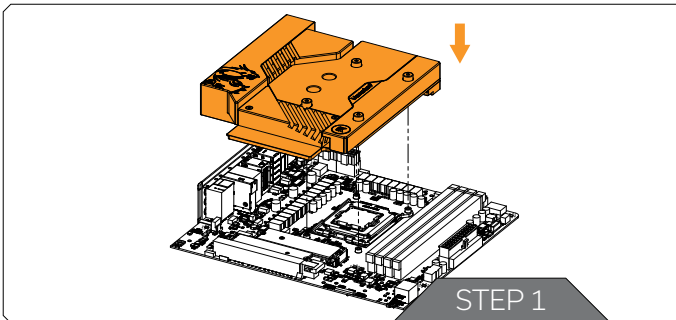
The excessive or uneven application of thermal grease may lead to poor performance!

For this step, you will need:

Thermal Grease



ATTACHING THE WATER BLOCK



STEP 1

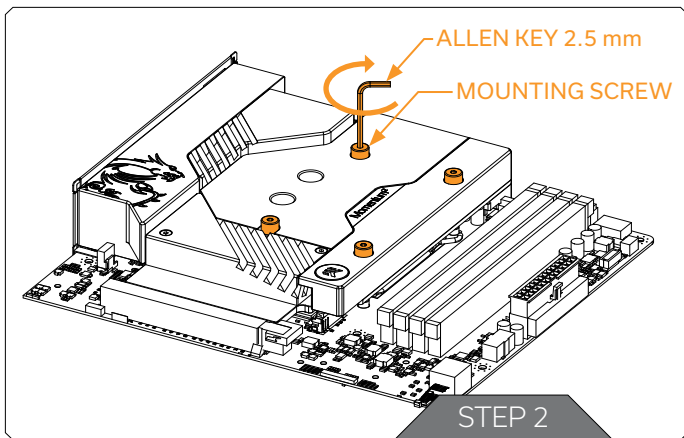
Carefully place the water block onto the motherboard and align mounting screws with holes on the motherboard.



Before placing the Water Block on the motherboard, make sure all the Thermal Pads are placed correctly! (Chapter: Cutting and placing thermal pads).



Make sure that you installed the CPU according to the motherboard instructions.

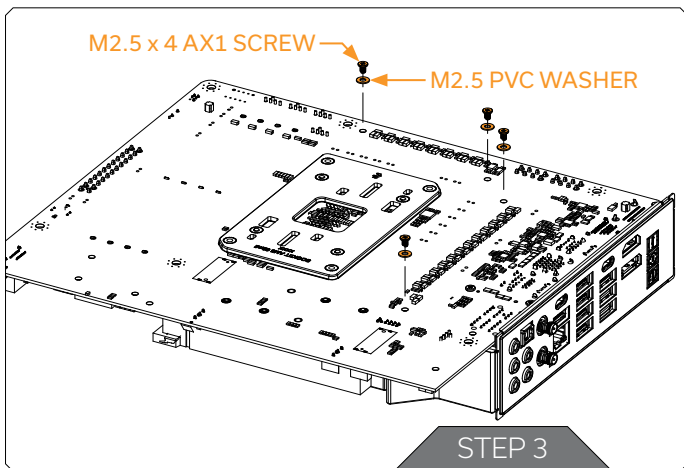
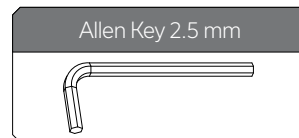


STEP 2

Tighten the four (4) mounting screws with the provided Allen Key 2.5 mm. Start tightening the screws in a cross pattern. Do not tighten fully until all of the screws are partially screwed in.

The Allen Key 2.5 mm must be used in a standing position! Otherwise, the mounting screws may crack during tightening!

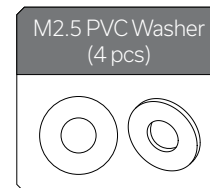
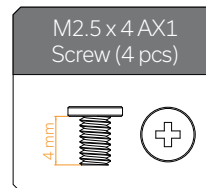
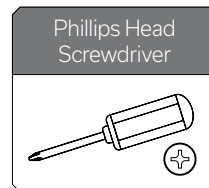
For this step you will need:



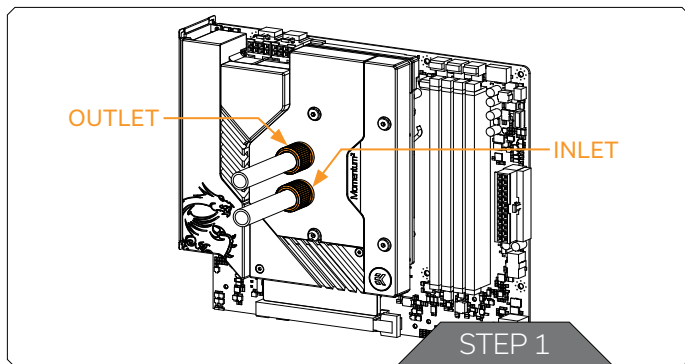
STEP 3

From the backside of the motherboard, attach four (4) M2.5 screws and washers to the marked places. Do not use excessive force while tightening the screws!

For this step you will need:



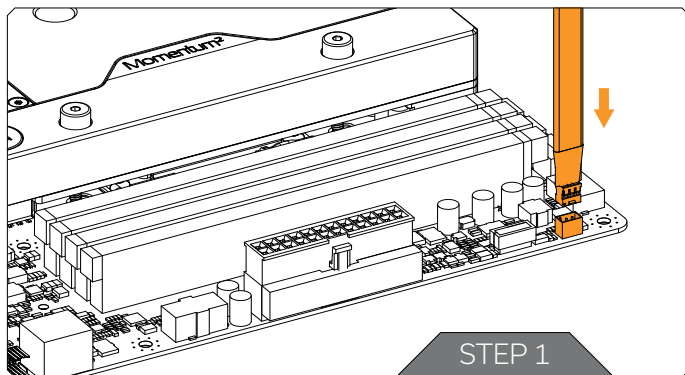
FITTINGS AND TUBING



STEP 1

With the EK-Quantum MSI MPG X670E CARBON EK X D-RGB water block, it is mandatory to use the bottom port as the INLET. Mixing the ports may result in poor thermal performance of the water block. Tighten the fittings in a clockwise direction until the gasket underneath is compressed.

CONNECTING THE FLOW METER, D-RGB LED AND TEMPERATURE SENSOR



STEP 1

Plug the 6-pin connector from the water block into the marked header on the motherboard.

TESTING THE LOOP

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.

SUPPORT AND SERVICE

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

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