

This product is intended for installation only by expert users. Please consult with a qualified technician for installation. Improper installation may result in damage to your equipment. EK Water Blocks assumes no liability whatsoever, expressed or implied, for the use of these products, nor their installation. The following instructions are subject to change without notice. Please visit our web site at www.ekwb.com for updates. Before installation of this product please read important notice, disclosure and warranty conditions printed on the back of the box.

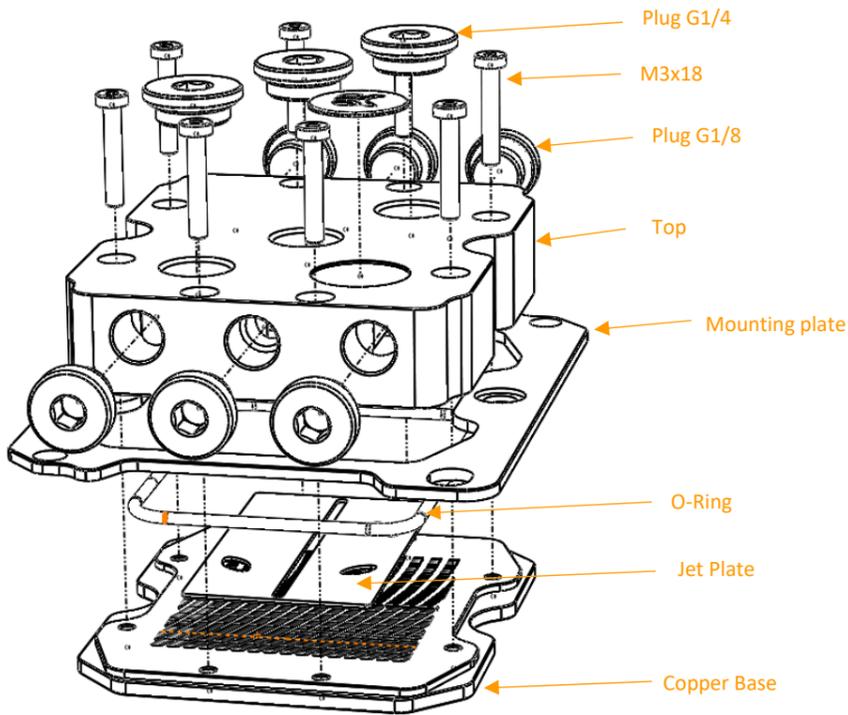
Before you start using this product please follow these basic guidelines:

1. **Please carefully read the manual before through before beginning with the installation process!**
2. **Please remove your motherboard from the computer to assure safest mounting process in order to prevent any possible damages to your CPU and/or motherboard's circuit board (PCB).**
3. **The EK-HFB, EK-HDC and EK-ACF type fittings require only a small amount of force to screw them firmly in place as the liquid seal is ensured by the rubber o-ring gaskets.**
4. **The use of corrosion inhibiting coolants is always recommended for any liquid cooling system.**

STEP 1: GENERAL INFORMATION ON PRODUCT COMPATIBILITY STEP 2: TABLE OF CONTENT

Congratulations on your purchase of EK-Annihilator Pro ILM water block. This water block is pre-assembled for use with modern Intel® Processors with LGA 3647 socket for server and workstation type motherboards.

This water block supports the LGA 3647 socket.



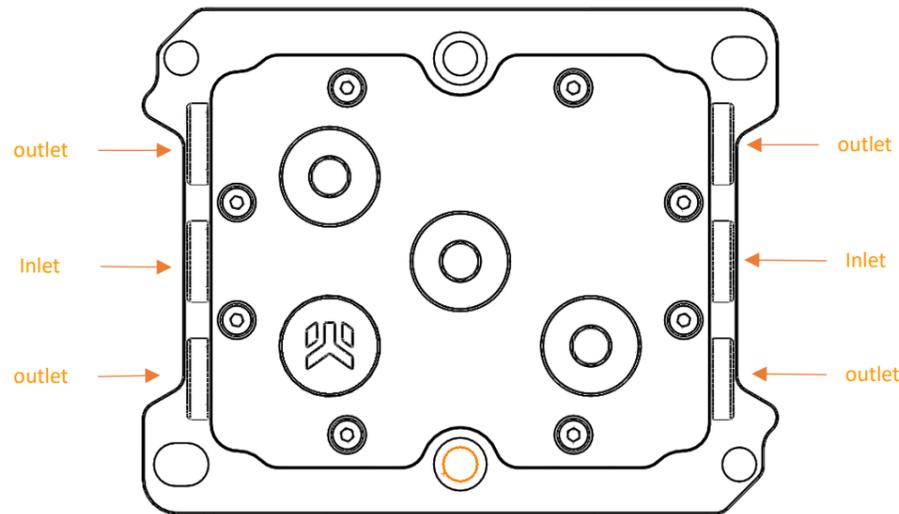
					
Thermal grease 1pc	EK plug G1/4 3pcs	EK plug G1/8 6pc	Mounting screw 4pcs	HFB Fitting Barb 6mm 2pcs	HFB Fitting Barb 10mm 2pcs

					
4mm Allen key 1pc	3/16 Allen key 1pc	5mm Allen key 1pc	6mm Allen key 1pc	Clamp 6mm 2pcs	Clamp 10mm 2pcs

STEP 3: ANNIHILATOR INLET AND OUTLET PORTS

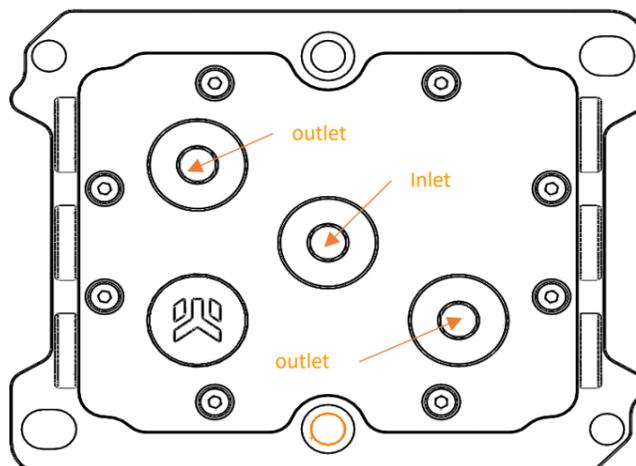
STEP 3a: G1/8 ports configuration:

6 ports G1/8 are available for low profile server cooling solution. Center ports are INLET ports, any of other four can be used as OUTLET port. Make sure, that other non used ports G1/4 and G1/8 plugs are in place, tightened firmly.



STEP 3b: G1/4 ports configuration:

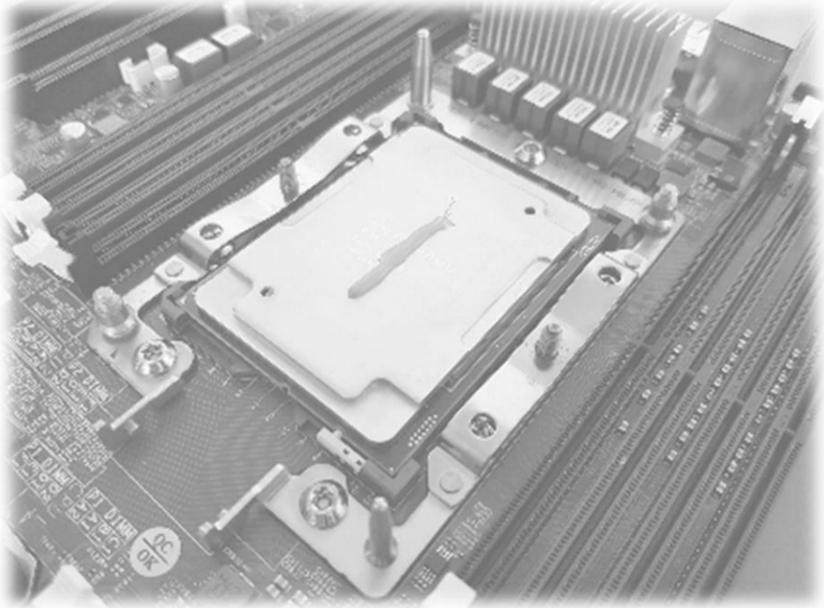
3 ports G1/4 are available for normal use of water block for workstations. Center port is INLET other two can be used as OUTLETS. Make sure that all other non used port plugs G1/8 and G 1/4 are in place, tightened firmly.



STEP 4: PREPARING CPU AND APPLYING THERMAL GREASE (TIM)

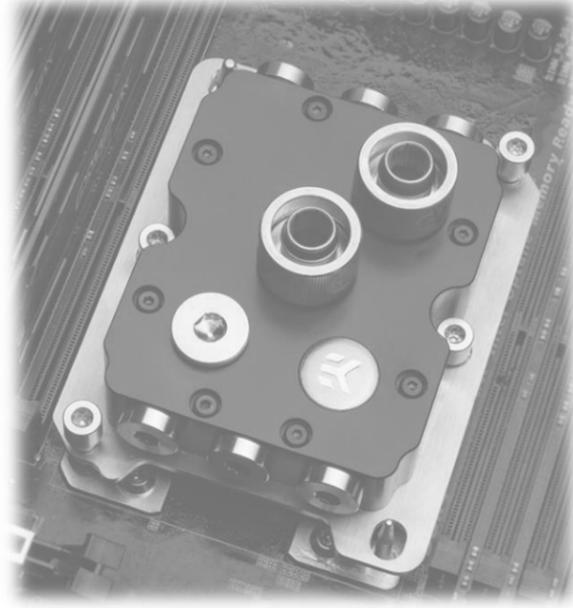
Cleaning the CPU: Wipe the CPU's contact surface (by using non-abrasive cloth or *Q-tip*).

Applying thermal compound: EK recommends a blob or line method of applying the enclosed EK-TIM Ectotherm™ thermal compound to the CPU heatspreader (IHS) - see sample photo on right. The quantity of about pea size is just about right. There is no need to cover the whole IHS. Applying too much thermal grease will have negative impact on the cooling performance!



STEP 5: INSTALLING THE WATER BLOCK

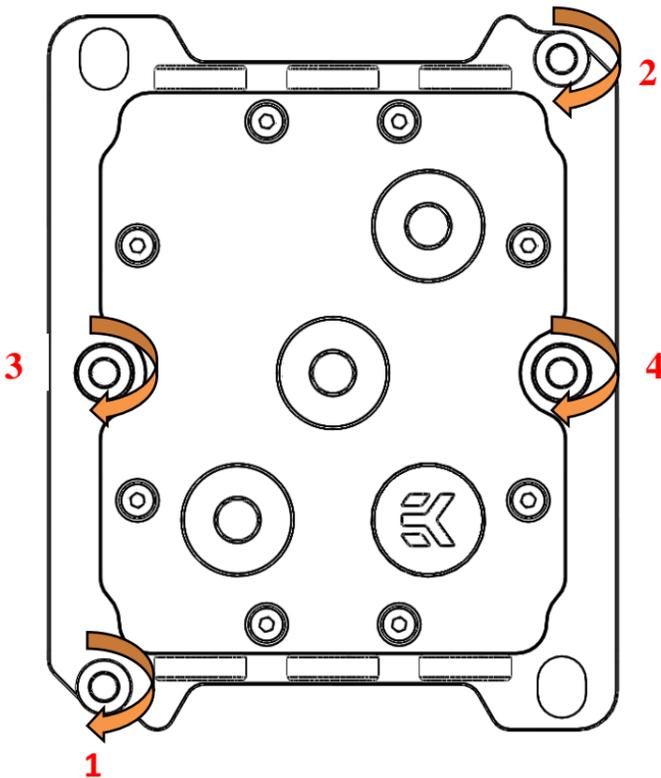
- 1) On majority of motherboards the EK-Annihilator Pro ILM can be successfully installed with motherboard already being pre-fitted to the computer chassis. Still, it is best practice to place a motherboard on an even surface with front side facing up.
- 2) Install CPU and apply TIM (thermal grease) as shown in STEP 5
- 3) Align water block above the LGA 3647 socket on motherboard with pre-installed CPU.
- 4) Tighten the screws using 4mm Allen Key the cross pattern.



STEP 6: CONNECTING THE WATER BLOCK TO THE COOLING LOOP

5a: Tightening sequence:

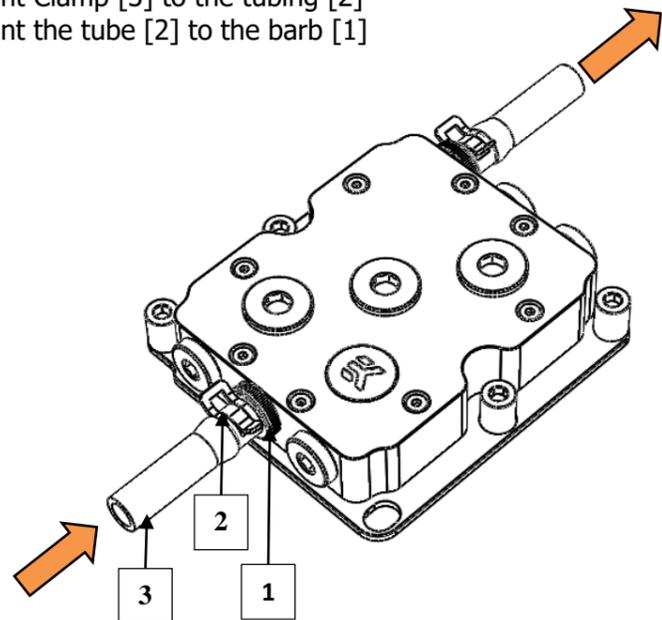
You have to tighten the screws in cross pattern sequence using 4mm Allen Key. Screws 1 and 2 must be tightened until they hit the limiter and are not able to turn more. Do not overtighten the screws 3 and 4!



Step 6a: Connecting G1/8 fittings with tube:

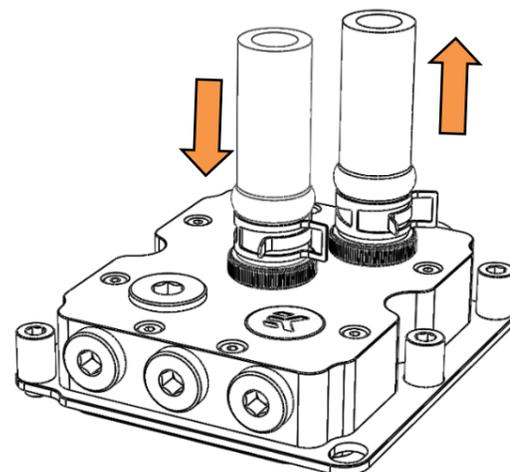
Carefully identify the direction of the flow in your circuit. EK recommends the use of EK-HFB Fitting 6mm G1/8 and EK-Tube ZMT 6/9mm Matte Black tubing.

1. Install Barb 1/8 [1] to the CPU block by using 3/16 Allen Key.
2. Mount Clamp [3] to the tubing [2]
3. Mount the tube [2] to the barb [1]



Step 6b: Connecting G1/4 fittings with tube:

Carefully identify the direction of the flow in your circuit. EK recommends the use of EK-HFB 10 mm barb fittings and EK-Tube ZMT 10/16mm.



The use of biocide containing and corrosion inhibiting coolant is always recommended for any liquid cooling system. EK recommends using EK-CryoFuel.