Installation and mounting manual for EK-XRES 100/140 Revo D5 Series Reservoir

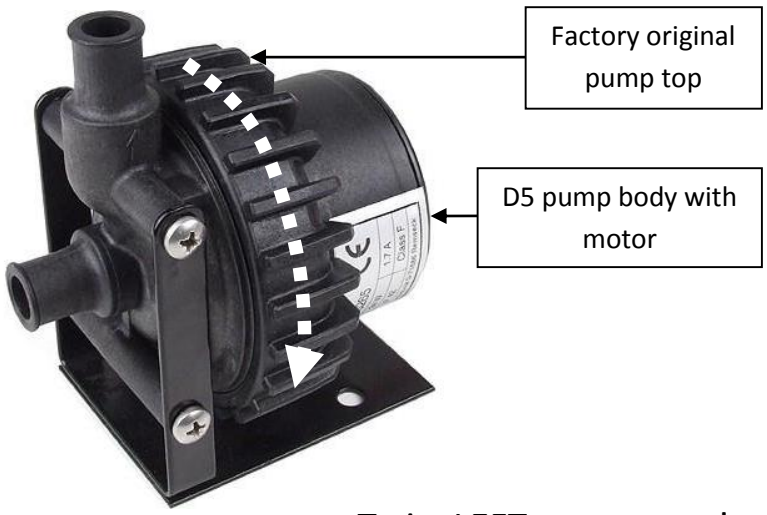
This product is intended for installation only by expert users. Please consult with a qualified technician for installation. Improper installation may result in damage to your equipment. EK Water Blocks assumes no liability whatsoever, expressed or implied, for the use of these products, nor their installation. 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. **The EK HFB and EK-ACF type 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.**
3. **The use of corrosion inhibiting coolants is always recommended for any liquid cooling system.**

STEP 1: PREPARING THE PUMP (already done by EK)

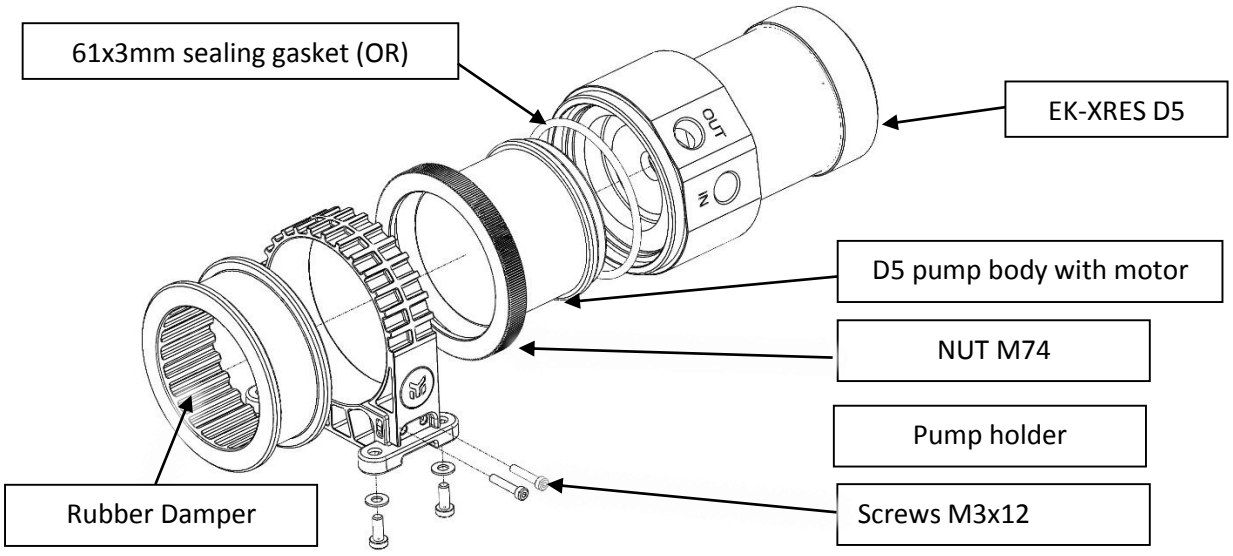
Unscrew the ribbed threaded ring that attaches the Laing pump's original factory top and the main pump core housing with motor. Store the original top, the original o-ring gasket and the attaching ring in a safe place.



Twist LEFT to unscrew!

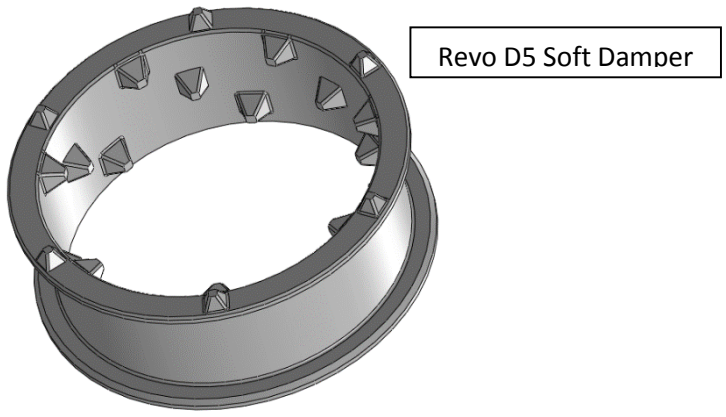
STEP 2: INSTALLING THE XRES D5 (already done by EK)

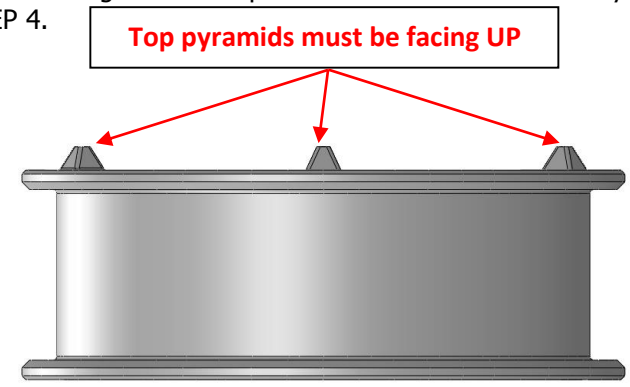
1. Install the EK-XRES Revo D5 onto the pump main motor housing. **Make sure you install EK provided 61x3mm o-ring gasket!** Reseat the gasket if needed.
   You can rotate the pump and use it in any direction except upside-down to best suit your installation.
2. Secure the pump on the EK-XRES 100 Revo D5 using enclosed M74 Nut.



STEP 2 (optional): ADDITIONAL DAMPER

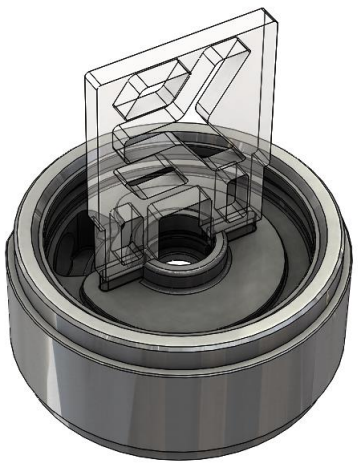
Additional Revo D5 Damper is enclosed. If pump vibrations are higher than expected additional Revo D5 Soft dumper can be used. When replacing damper, take care that top pyramids are faced up as shown on picture below. In case of severe tilting of the computer chassis reservoir unit may fall out of the holder. Additional dumper use is recommended in vertical reservoir unit mount, see picture under STEP 4.





STEP 3 (optional): USING POLYETHER ANTI-VORTEX FOAM or EK-HD Tube:

EK-XRES 100 Revo D5 series pump top / reservoir comes preinstalled with Anticyclone by default. In case your system suffers from excessive vortex issues, air bleeding problems or if the pump is sucking in air you may replace the anticyclone with the enclosed polyether foam or EK-HD Tube. There are two ways to use the polyether anti-vortex foam:

Default configuration	PE foam – use whole	PE foam – trim to fit recess	HD Tube
			
This is the default configuration of EK-XRES 100 Revo D5 *series* reservoir.	Use the foam as a whole to replace the Anticyclone.	Trim the foam to size to fit into the desired inlet recess on the EK-XRES Revo D5 main body.	Insert enclosed o-ring 16x2 into the groove inside center hole and insert enclosed EK-HD Tube 12/16.

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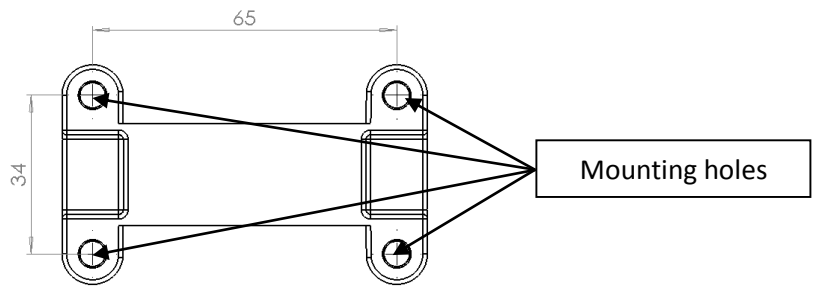
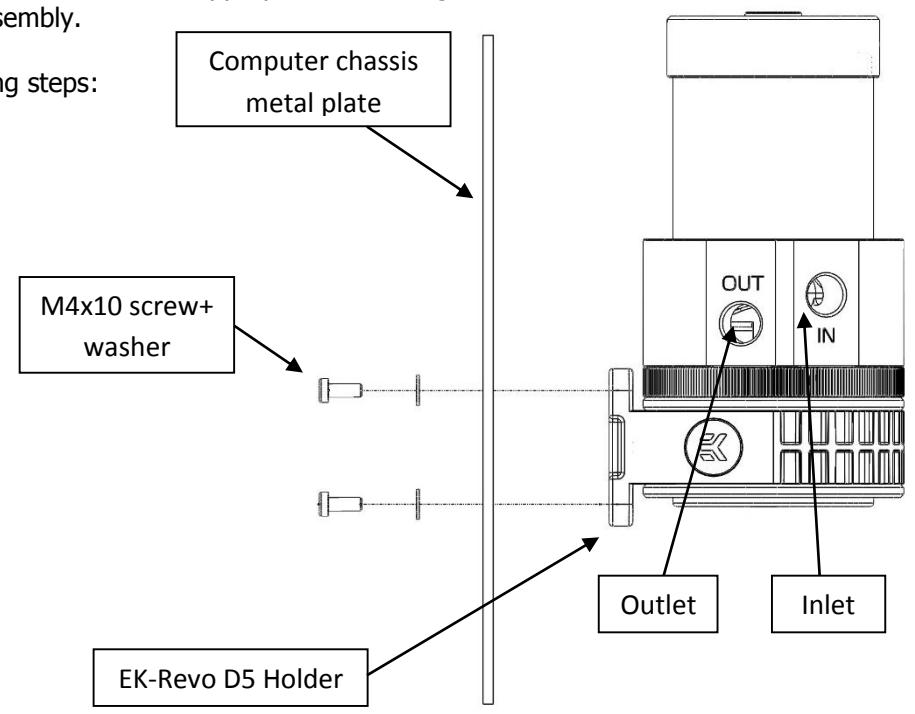
STEP 4: MOUNT THE EK-XRES 100/140 Revo D5 RESERVOIR INTO THE COMPUTER CHASSIS

By default the EK-XRES Revo D5 ships with EK-Revo D5 Holder. This holder is meant to be installed directly on the computer chassis. User may need to drill 4 (four) Φ5 mm (enclosed sticker with designated holes) holes through the metal chassis using electric power drill if there are no appropriate mounting holes available. EK recommends users to find an appropriate position in your computer chassis to install the EK-XRES Revo D5 pump assembly.

To sucessfully install the EK-XRES Revo D5 pump/reservoir assembly please complete the following steps:

1. Find an appropriate position for the unit inside (or perhaps outside) of your computer chassis; drill mounting holes if needed. Sticker with designated holes position is enclosed. Before drilling stick it to the Computer chassis.
2. Attach the EK-Revo D5 Holder to the computer chassis metal frame using enclosed 4 (four) M4x10 DIN7984 screws and PVC washers. Secure the screws using enclosed Allen key 2.5mm..
3. Insert the rubber damper into the EK-Revo D5 Holder. Insert the pump into the damper. And secure it using two M3x12 DIN7984 screws from the side of the holder. Use enclosed 2mm Allen key. Your installation is now complete.



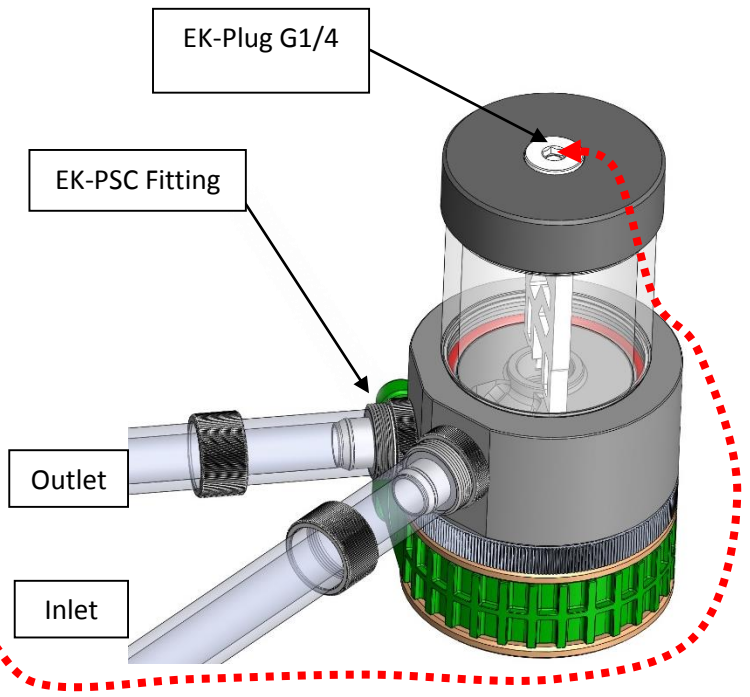


STEP 5: ATTACHING FITTINGS

EK-XRES Revo D5 PWM (incl. pump) series reservoir pump combo featured 3 (three) G1/4 threaded ports on the main body of which 1 (one) is inlet and other is outlet. When reservoir is in upright position outlet port is positioned lower than inlet port. EKWB recommends using EK-ACF fittings with the EK-XRES Revo D5 PWM series reservoir pump combo units. To ensure that the tubes are securely attached to the barb/fittings, please use hose clamps or an appropriate substitute.

It is mandatory to use the correct INLET and OUTLET ports:

1. The OUTLET port (pressure port) is, when the reservoir sits in upright position, positioned lower than the inlet port.
2. The INLET port(s) (suction port) is the port with G1/4 threading plane.
3. Make sure not to use fittings or barbs with G1/4 thread longer than 5mm! All *EK-ACF, EK-HDC* fittings are compatible!



TIP: Port on reservoir's top part is not intended to be used as inlet port. The aforementioned port should only be used for connecting this reservoir with external fill port!

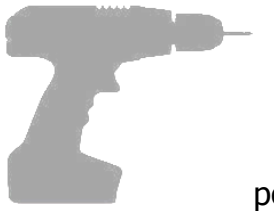
IMPORTANT DISCLOSURES:

VERY IMPORTANT NOTICE: Once the installation is completed, it is a recommended practice to test the cooling circuit for leaks prior to powering up the computer. We recommend a 24 hour leak test prior to powering up the computer. Do not test the water block using tap water pressure. This will rupture the top of the housing and render the block unusable (and will void your warranty). While all efforts have been made to provide the most comprehensive tutorial possible, EK Water Blocks assumes no liability expressed or implied for any consequential damage(s) occurring to your equipment as a result of using EK Water Blocks cooling products, either due to errors or omissions on our part in the above instructions, or due to failure or defect in the EK Water Blocks cooling products.

WARRANTY:Our products are warranted against defects in materials or workmanship for a period of 24 months beginning from the date of delivery to the final user. During this period, products will be repaired or have parts replaced at our discretion provided that: (I) the product is returned to the agent from whom it was purchased; (II) the product has been purchased by an end user and has not used for commercial purposes; (III) the product has not been misused, handled carelessly, or used in a manner other than in accordance with the instructions provided describing its installation and proper use. This warranty does not confer rights other than those expressly set out above and does not cover any claims for consequential loss or damage. This warranty is offered as an extra benefit and does not affect your statutory rights as a consumer. This warranty is voided if the product comes in contact with aggressive additives or other improper liquids.

Any other RMA issues can be reported to http://www.ekwb.com/support for further analysis.

REQUIRED TOOLS Allen key 2.5mm, allen key 2mm and allen key 6mm (are enclosed)



power drill with 5mm drill bit or equivalent (optional)

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