

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.

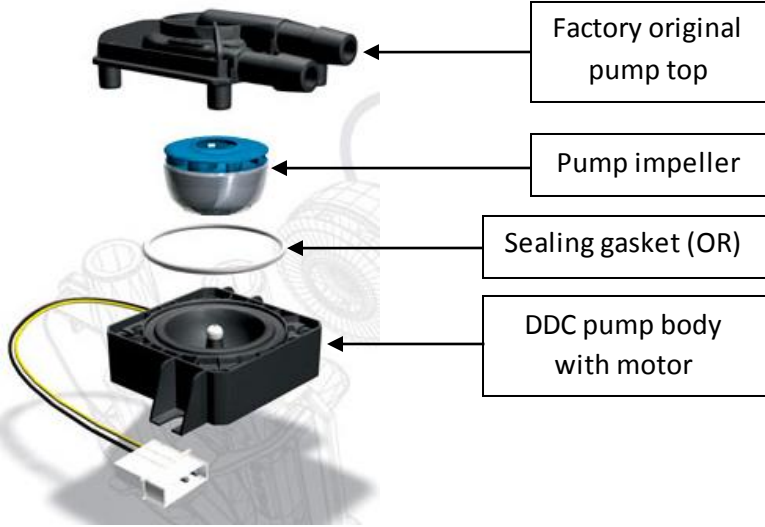
Before you start using this product please follow these basic guidelines:

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)

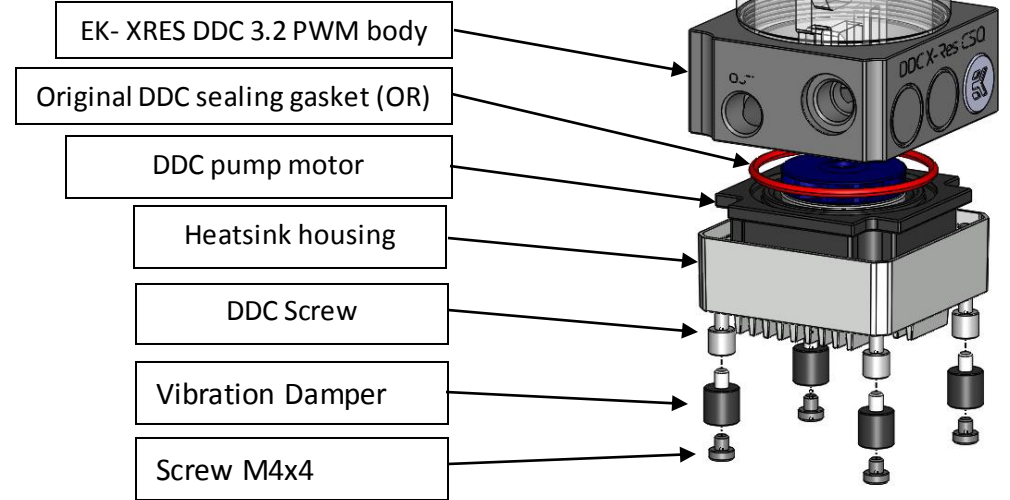
Unscrew the four screws that attaches the Laing pump's original factory top and the main pump core housing with motor. Store these four screws as well as factory pump top in a safe place.

Remember to keep the original O-ring gasket!



STEP 2: INSTALLING EK-XRES 100/140 DDC 3.2 PWM Elite (Incl. Pump) (already done by EK)

1. Install the EK-DDC 3.2PWM on to the pump main motor housing. **Make sure you re-use the original O-ring gasket!** Reseat the gasket if needed. You can rotate the DDC X-RES in and use it in any direction (90° step turns).
2. Secure the DDC X-RES using enclosed DDC Screws using 2mm Allen key. Do not over tighten the screws as excessive force may strip the threading.



STEP 3 (optional): USING POLYETHER ANTI-VORTEX FOAM:

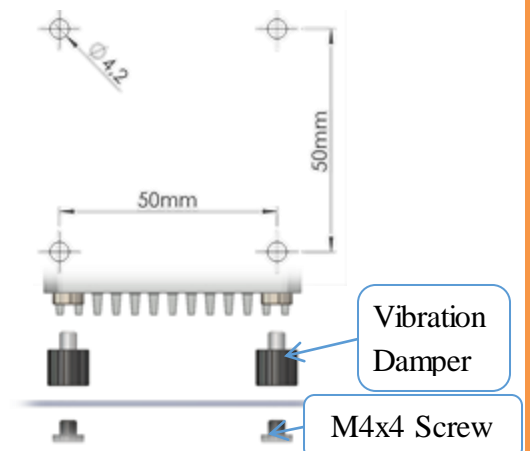
EK-XRES DDC 3.2 PWM Elite series pump top / reservoir comes preinstalled with EK-DDC X-RES – Anticyclone by default. In case your system suffers from excessive vortex issues, air bleeding problems or if the pump is sucking in air you may replace the anticyclone with the enclosed polyether foam. There are two ways to use the polyether anti-vortex foam:

Default configuration	PE foam – use whole	PE foam – trim to fit recess
This is the default configuration of EK-XRES DDC 3.2 PWM series reservoir.	Use the foam as a whole to replace EK-DDC X-RES – Anticyclone.	Trim the foam to size to fit into the desired inlet recess on the EK-XRES 100/140 DDC 3.2 PWM main body.

STEP 4: INSTALLING THE ASSEMBLY

The assembly can be mounted on any flat surface inside your computer chassis. One must drill four (4) 4.2mm holes using powerdrill in a 50x50mm square pattern. Please follow these steps:

1. Screw on Vibration Dampers on Custom DDC Screws
2. Drill four (4) 4.2mm holes into the chassis
3. Use enclosed M4x4mm screws to secure the pump to the chassis.

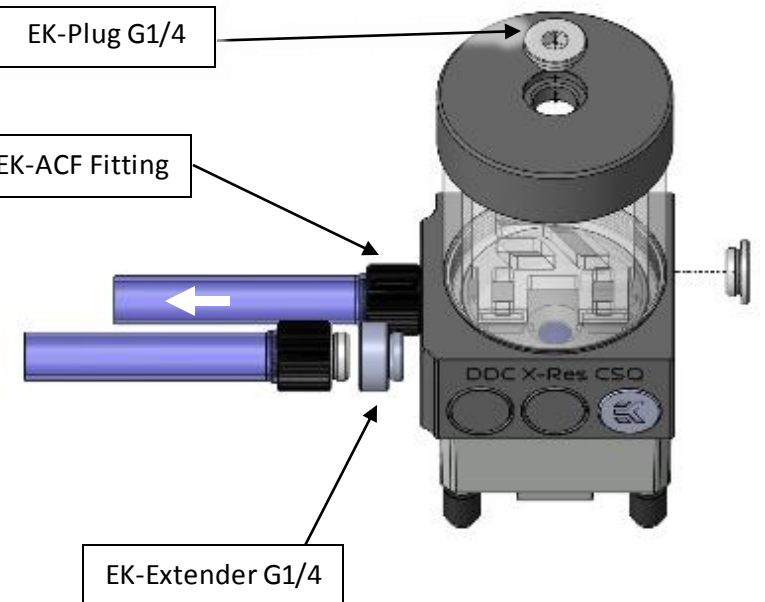


STEP 5: ATTACHING THE FITTINGS

EK-XRES DDC 3.2 PWM Elite series reservoir pump combo featured 3 (three) G1/4 threaded opening on the main body of which 2 (two) are inlets and one is outlet (clearly marked with 'OUT'). EKWB recommends using EK-ACF fittings with the EK-DDC 3.2PWM 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 clearly marked with label 'OUT' engraved on the pump top housing.
2. The INLET port(s) (suction port) are the two recessed ports with G1/4 threading on the EK-DDC X-TOP front face plane. You may use any of these two ports as an INLET port. It is necessary to use the enclosed EK-Extender G1/4 underneath the INLET fitting! Please refer to the picture on the right! **Do not forget to close off the unused INLET port using EK-Plug G1/4!**
3. Make sure not to use fittings or barbs with G1/4 thread longer than 5mm! All EK-ACF and EK-HFB fittings are compatible!



This water pump & EK-DDC TOP combo can be used in vertical mounting configuration (position) only! Mounting the pump upside down may result in pump running dry and eventually lead to premature failure of the pump!

