Installation and mounting manual for EK-RES X3 Lite 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.

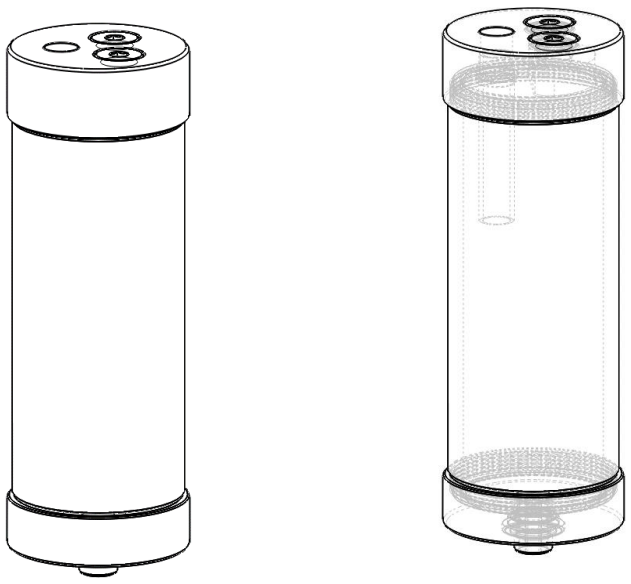
Before you start using this product please follow these basic guidelines:

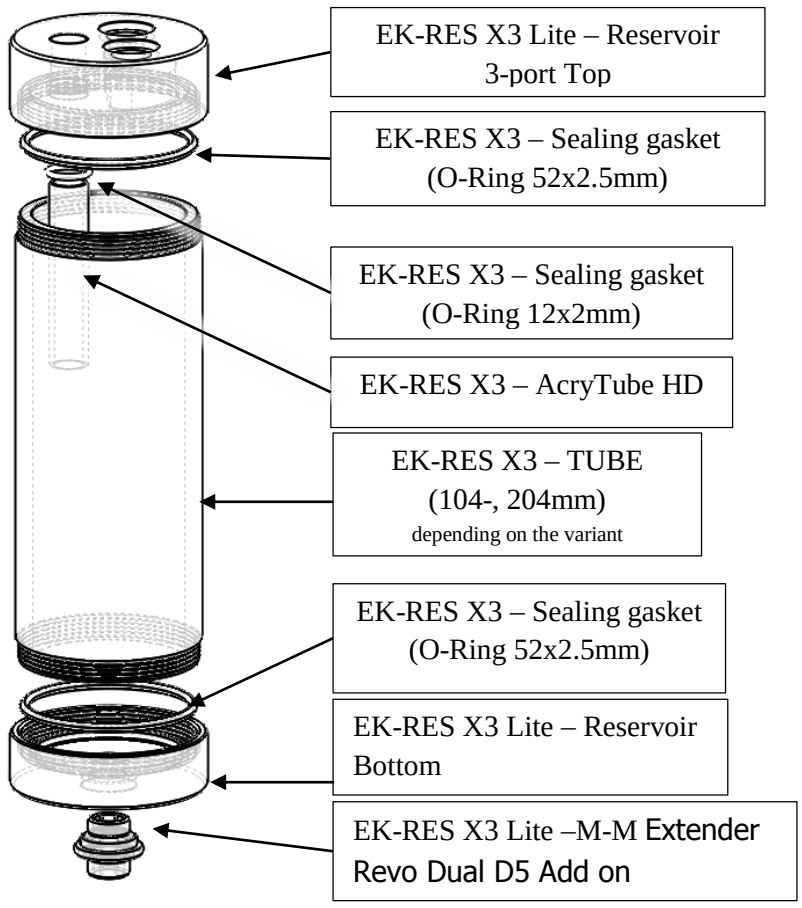
1. **Please carefully read the manual before through before beginning with the installation process!**
2. **The EK-ACF and EK-HDC type fittings require only a small amount of force to screw them firmly in place since the liquid seal is ensured by the rubber o-ring gaskets.**
3. **The use of corrosion inhibiting coolants is always recommended for any liquid cooling system.**
4. **DO NOT USE any kind of alcohol or alcohol derivate with this reservoir or the acrylic tube may crack and fail! Do not clean it using alcohol either!**

STEP 1: GENERAL INFORMATION. Factory provided EK-RES X3 Lite *series* reservoir

Congratulations on your purchase of EK-RES X3 Lite series reservoir! By default the EK-RES X3 Lite series reservoir comes with the following:

- EK-RES X3 *series* reservoir with preinstalled Acrylic tube
- EK-Multioption RES X3 Holder 60mm (2 pcs)
- Polyether anti-vortex foam (H=15mm)
- Mounting mechanism:
  - 2x G1/4 Plug
  - 2x EK-G1/4 Extender
  - Allen Key 6mm
  - 1x EK-AF Extender Revo Dual D5 Add on

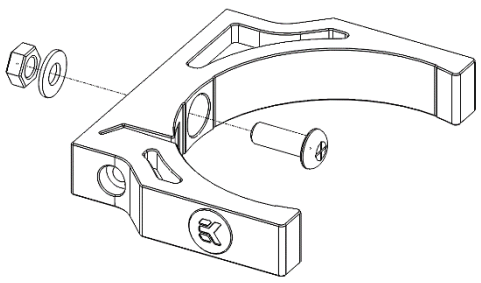




STEP 2: INSTALLING THE RESERVOIR HOLDERS

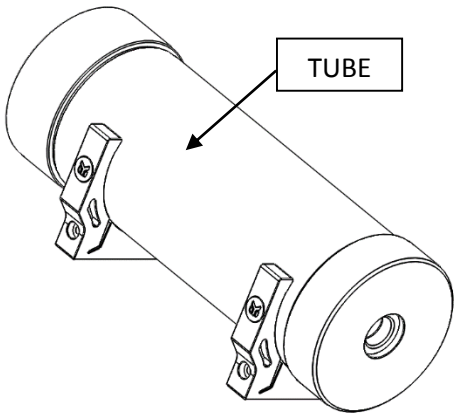
EK-RES X3 Lite *series* reservoirs comes with a pair of special EK-Reservoir holders. These holders are meant to be installed directly on the computer chassis. User may need to drill 2 (two) Φ4mm holes through chassis metal using electric power drill if there are no appropriate mounting holes available.

STEP 2.1



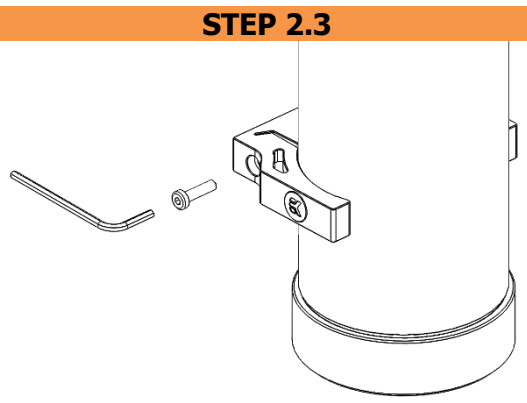
Use enclosed M4 screw, washer and nut to mount the reservoir holder through the pre-drilled hole to the computer chassis.

STEP 2.2



Install reservoir onto reservoir holders. Using a gentle force the reservoir will easily 'click' into position. The clamps should always hold onto acrylic tube and not the acetal top or bottom.

STEP 2.3



Once the reservoir is positioned please use enclosed 2.5mm Allen key to tighten the hex head screw in order to clamp the reservoir. Do not use high force. Partially unscrew the aforementioned screw when removing the reservoir.

STEP 3 USING POLYETHER ANTI-VORTEX FOAM:

EK-RES X3 series reservoir comes preinstalled with Acrylic tube by default. In case your system suffers from excessive vortex issues, air bleeding problems or if the pump is sucking in air you may add the enclosed polyether foam.

Default configuration

This is the default configuration of EK-RES X3 *series* reservoir.

PE foam – use whole

Use the foam as a whole in Bottom. (Could be use in vertical position)

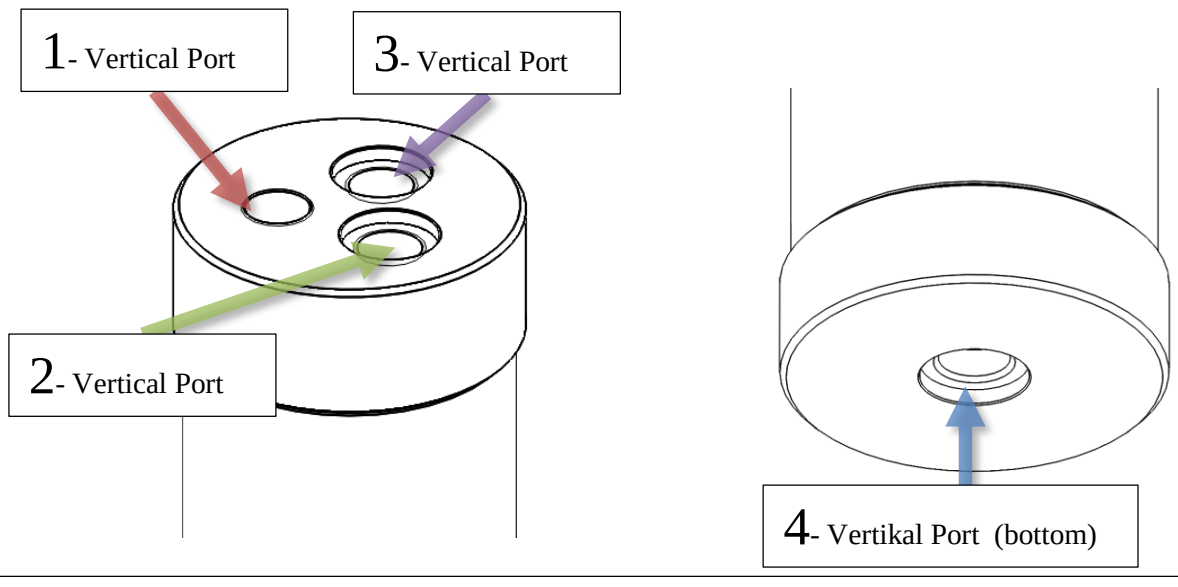
PE foam – trim to fit recess (for Vertikal upside down possition only!!)

Trim the foam to size to fit into the desired recess on the Reservoir Top. (For vertical upside down position only)

STEP 4: RECOMMENDED RESERVOIR CONFIGURATION

EK-RES X3 Lite series reservoir features 1 (one) G1/4 threaded inlet/outlet openings on the Reservoir Bottom plus additional 3 (three) on the Reservoir Top. In order for reservoir to function properly one port must be used as an inlet and one as an outlet. Unused ports must be closed with plugs using enclosed 6mm Allen key!

GENERAL OVERVIEW OF ALL G1/4 THREADED PORTS:



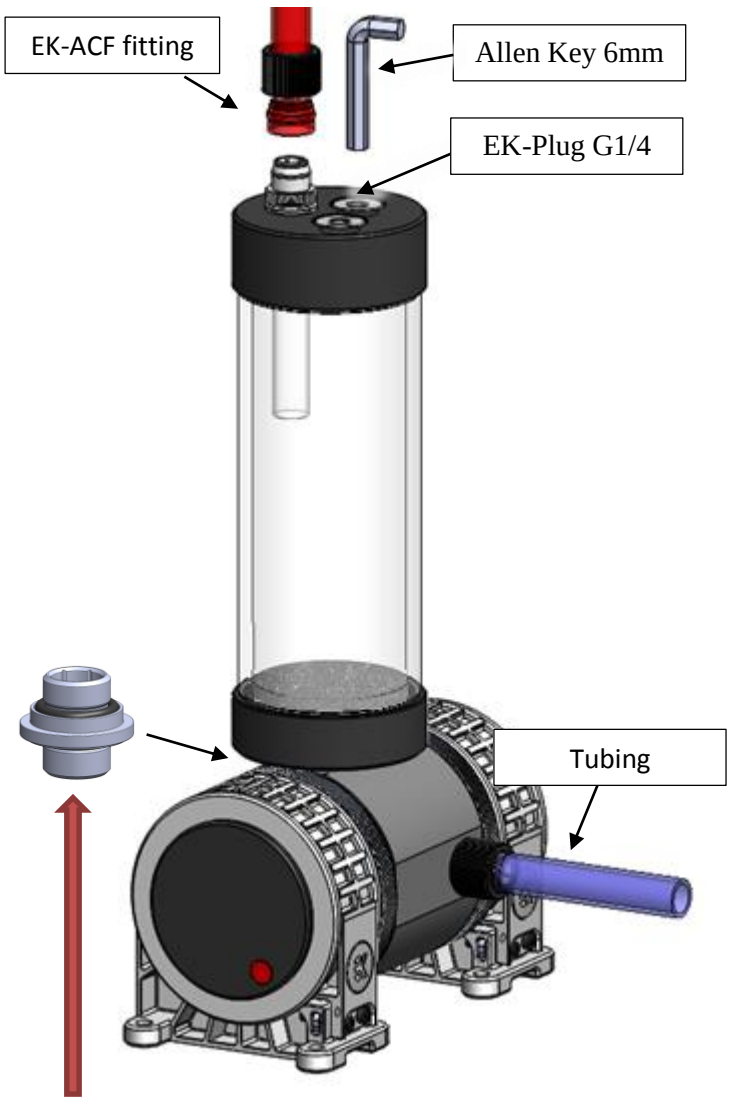
IMPORTANT NOTES:

1. When using ports #2, #3 or #4 it is mandatory to use the enclosed **EK-Extender G1/4** (EAN: 3831109845165) due the ports being recessed into the plastic Reservoir Bottom and Top.
2. When using EK-Extender G1/4 make sure not to use fittings or barbs with G1/4 thread longer than 5mm! All *EK-ACF* and *EK-HDC* fittings are compatible!
3. When using ports #1, #2 and #3 make sure not to use fittings or barbs with diameter larger than 25mm! All *EK-ACF* and *EK-HDC* fittings are compatible!
4. EK recommends the use of EK-ACF fittings. When using fittings other than EK-ACF series please use hose clamps or appropriate substitute to secure the tubing to the barb. The use of biocide containing and corrosion inhibiting coolant is always recommended for any liquid cooling system.

TIPS AND ADVICES:

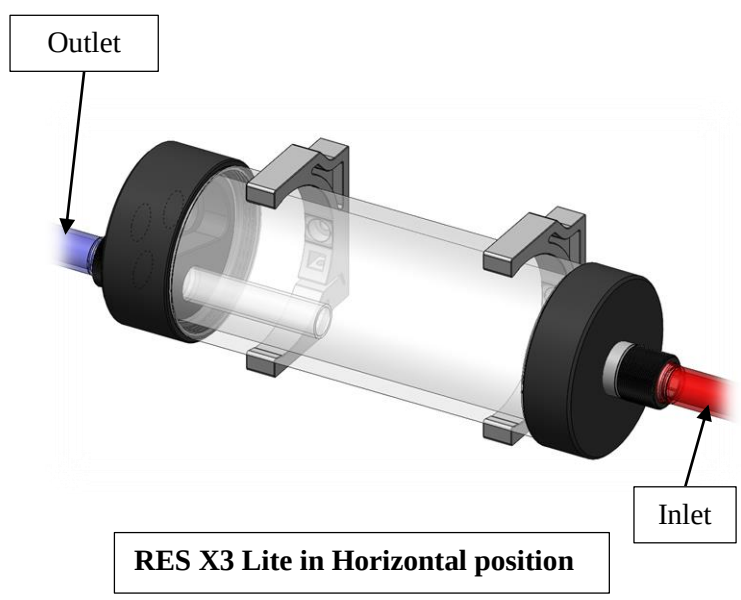
- Using a horizontal pass-through configuration (using ports #1 as outlet #4 as inlet) will yield in most optimal hydraulic conditions but may result in difficult initial bleeding of air in low restriction- or high pumping power water cooling systems.
- When using a top feeding vertical configuration (using ports #1 and #4 as inlet/outlet) you may experience severe vortex issues. Using a PE foam as will remedy this issue. Please see STEP 3!

RECOMMENDED RESERVOIR CONFIGURATION:

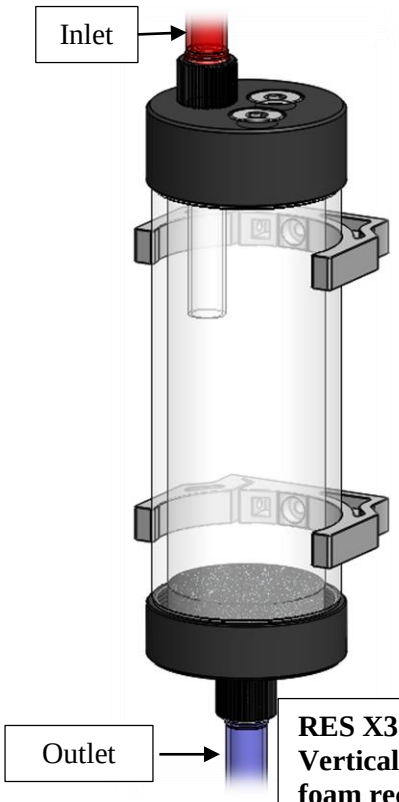


To connect RES X3 Lite with XTOP Revo Dual D5 you need to use enclosed Male-Male Extender. Extender have threat longer than 5mm!!! NOT compatible with EK-XTOP DDC!!!

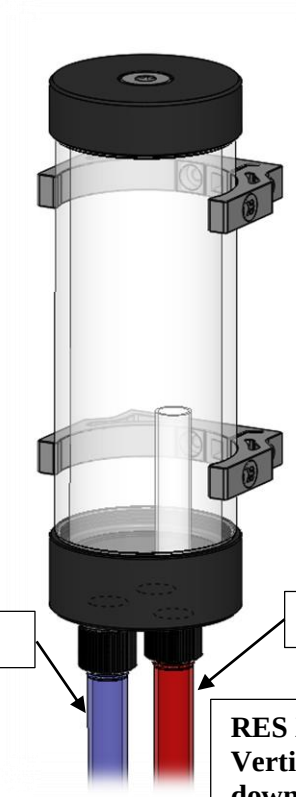
OTHER RECOMMENDED RESERVOIR CONFIGURATION



RES X3 Lite in Horizontal position



RES X3 Lite in Vertical position (PE-foam recommended)



RES X3 Lite in Vertical upside down position

REQUIRED TOOLS AND ACCESSORIES:

philips screwdriver

power drill with 4mm drill bit (optional)