

## Coollaboratory ALPHEOS Liquid Cooler

**Quality: Made in Germany!!!**

The Coollaboratory ALPHEOS Liquid Cooler offers by its perfectly co-ordinated aquifer system a brilliant cooling efficiency. By the multiplicity of the superfine lamellas, which have a small distance too each other, results an extreme flow rate which dissolves the warm-restraining boundary layers. Thereupon the Coollaboratory ALPHEOS Liquid Cooler catapults itself into the best regions of all available water cooler at the market in the matter of cooling performance. It was provided on basis of computational fluid dynamics, therefore all death water zones were eliminated, which additionally affects the cooling performance positively.

Beyond that the Coollaboratory ALPHEOS Liquid Cooler is easy-care as no extremely fine nozzles, which remind of a filter, were used. The structure of the base was developed on basis of single core and multi-core CPUs. Thus older, also newer and future CPUs can be cooled lasting optimally. Cover and aquifer system plate consist of a shatter crack-resistant special plastic. Therefore shatter cracks at the connecting thread belong to the past. These entire characteristics make the Coollaboratory ALPHEOS Liquid Cooler almost fail safe.

By a pretreatment of the high-quality cooler base with liquid metal in a particularly developed coating process (Micro Refining Technology) a high-quality improvement of the heat sink is reached.

Included in delivery is the cooler and assembly material. We recommend for the installation the Coollaboratory Liquid Ultra, in order to support the outstanding performance of the radiator by the high-quality heat conduction medium. The Coollaboratory ALPHEOS Liquid Cooler can be acquired in different versions.

- Coollaboratory ALPHEOS Liquid Cooler – Intel (Base 775, 1156, 1366 and 2011)
- Coollaboratory ALPHEOS Liquid Cooler – AMD (Base AM2, AM2+, AM3, AM3+ and FM1)

### Instruction for installation for Coollaboratory ALPHEOS Liquid Cooler

**Please notice!** Just operate on a computer which is separated from electricity. We assume no liability for any damage by incorrect assembly! The connections may be installed only by hand without tools! The use of assembly tool leads to the warranty loss! Please follow explicitly the assembly instruction to avoid any damage. Please test the product for leaks before installing! Coollaboratory does not assume the warranty of the manufacture of the electronic construction units and components!

#### 1. Check the delivery!

CPU water cooler  
Assembly screws  
nylon washer  
compression springs  
Knurled nuts  
Instruction for installation

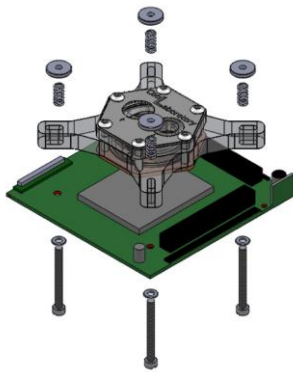
## 2. Preparation of the cooler

Take the Coollaboratory ALPHEOS Liquid Cooler out of the package and screw chosen connections into the specified connecting threads. Please remember that you test the cooler for leaks **before** installing!

## 3. Preparation of the motherboard

Remove the previous cooler of your motherboard and remove any remains of a conventional heat conduction paste. After the cleaning you lead the nylon washers over the added screws and put these from downside by the assembly drillings of the motherboard.

## 4. Installation of the cooler



Put heat conduction medium on your processor und insert the screws through the specified assembly drillings. The base surface should rest flat upon on the processor now. Put on the compression springs to the screws and turn the knurled nuts on the screws until they get into contact to the springs. Now turn always the diagonally facing knurled nut to a complete stop and turn each knurled nut a rotation back to be able to realize the maximum contact pressure.

## 5. Further works

Please check the Coollaboratory ALPHEOS Liquid Cooler again on correct hub and install the motherboard with help of instruction of the manufacturer. Attach the tubes to the connections and start a test run of your water cooling system. With a smooth test run your PC can be start up again. We recommend here the use of an ATX jumper, in order to fill the water cooling with coolant already before the start-up of the computer. As soon as the water cooling is ready for action and deaerated, the PC can be start up again.

### Security advices

**We recommend for the use in water cooling systems with coolers from Coollaboratory only the use of Coollaboratory Liquid Coolant Pro. Damage by other coolants leads to the warranty loss! Not suitable for children under 6 years (contain swallowable consumables).**

Use the connections only with a sealing ring. The connections may be installed only hand-screwed. Thus permanently tightness can be ensured. Operate your water cooling cycle not without proving that coolant flows by the cooling system. Otherwise the components can become very hot and it can lead to damages at the hardware. Burn danger! Therefore examine always that the pump functioned when switching on.

For more information please visit our Website **[www.coollaboratory.com](http://www.coollaboratory.com)**!