

## Assembly instructions HEATKILLER® GPU-X<sup>3</sup> 6990



The unique design of the HEATKILLER® GPU-X<sup>3</sup> guarantees outstanding performance. A cooling performance in the range of current high-end CPU coolers, a flat design as well as top quality materials distinguish the new GPU-X<sup>3</sup> series.

The bottom plate consists of pure copper. The cooling structure of the GPU is extremely fine-tuned and offers a higher performance than most CPU coolers. The thin base ensures even more performance.

HEATKILLER®	GPU-X <sup>3</sup> 6990 LT	GPU-X <sup>3</sup> 6990 Hole Edition
Dimensions (LxWxH)	258,0 x 117,0 x 9,5mm	258,0 x 117,0 x 11,5mm
Weight	900g	1200g
Material (bottom/cover)	CU / VA	CU / VA
Connections	G ¼ inch	G ¼ inch
Temperature-resistant up to	80°C	80°C
Compatible with	AMD Radeon HD 6990	AMD Radeon HD 6990

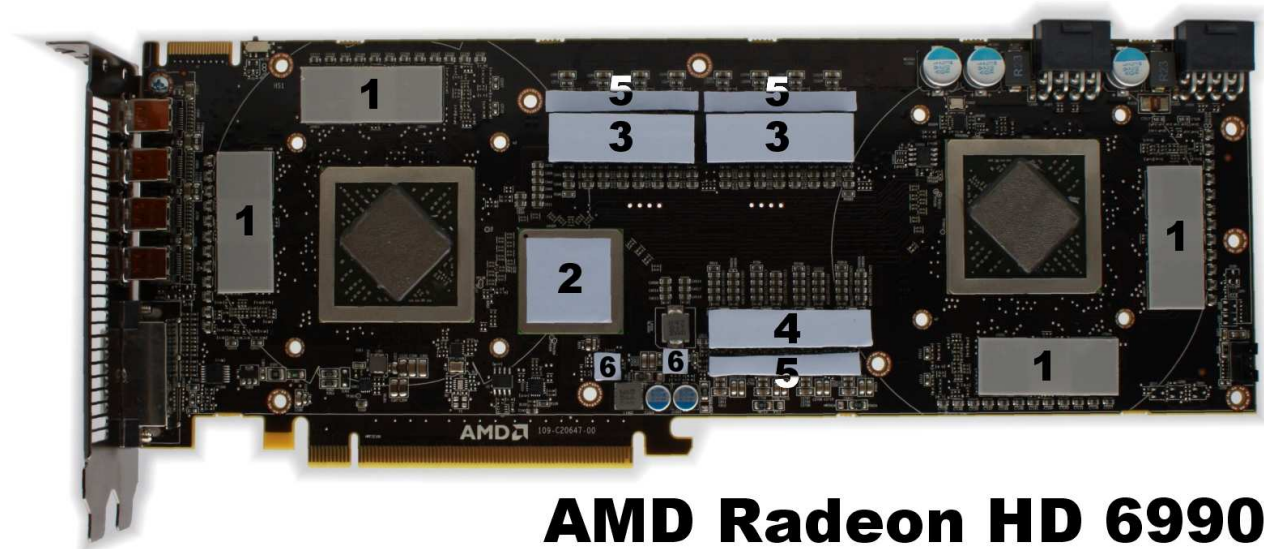
**Note:** You will find coloured assembly instructions in PDF format in the service area of our homepage. ([www.watercool.de](http://www.watercool.de))

**Attention:** The Watercool company assumes no liability for any damages caused to hardware. If uncertain hire a specialist to carry out the modification, or use our modification service. By disassembling the original cooler you may cause the manufacturer's warranty to become void, if uncertain contact the manufacturer of the Graphic card.

### Preparation of the Graphic card

Remove the original heatsink and all remnants of the thermal pads.

Place the pre-cut pads on the graphics card as illustrated. Normally, both sides of the pads are covered with a protective film which must be removed before the installation.



## AMD Radeon HD 6990

Make sure to place the pads on the right components.

- No.1 – thermal pad 0.50mm height (color purple)
- No.2 – thermal pad 1.00mm height (color light blue)
- No.3 – thermal pad 1.00mm height (color light blue)
- No.4 – thermal pad 1.00mm height (color light blue)
- No.5 – thermal pad 1.00mm height (color light blue)

Apply the thermal compound to the GPU area evenly.

### Assembly of the cooler with AMD back plate

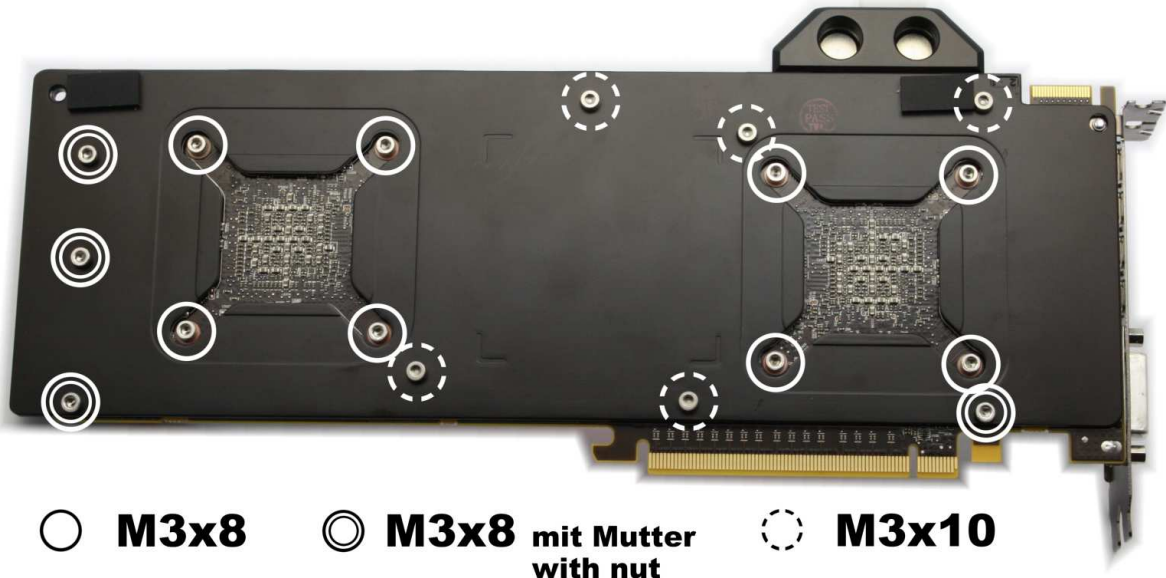
First connect the back plate with the board using the M3x8 screws (marked with a double circle) with the enclosed nuts and washers. The screws are inserted through the back plate **without** the washers and then screwed together with the washers and the nuts on the top of the board.

The cooler is placed on the prepared graphics board. Then turn the board around together with the cooler. 7 x M3x8mm screws as well as plastic washers are enclosed with the cooler.

Starting with the GPU sections (marked with a single circle), twist the screws into the cooler together with the washers. Do not tighten the screws yet.

Now screw the remaining screws (M3x10 mm marked with an interrupted circle) through the back plate into the cooler **without** washers.

Once all screws are attached to the cooler, screw them tight beginning with the GPU area. Make sure to tighten the screws crosswise.



The cooler can also be operated without the original back plate. Should you prefer this type of assembly, only install the M3x8 screws and the washers.

### Installation and leak test

After the installation, a check and test run must be performed! The coolers are constructed based on the reference design; still, all sections of the board have to be checked for possible contact to the cooler. In addition, the contact of the GPU to the cooler must be checked along with the bending of the board. A slight bending of the board is normal.

A leak test should preferably be performed outside of the computer. If this is not possible, the hardware may not be turned on during the test run!

Once all of the cooler elements were tested, the computer can be put into operation. Check the temperature of the GPU immediately after the start!

### General information

The HEATKILLER® GPU-X<sup>3</sup> 6990 does not have a defined input and output. The cooling medium can stream in or out on both sides.

Under normal circumstances it is not necessary to open the cooler. If you still want to do so, please use a corresponding tool for Allen screws in industrial quality.

We recommend using demineralised or deionised water (distilled water) as cooling medium. To prevent the build-up of algae, use common citric acid. This reliably prevents the spread of algae.

The cooler is fully Crossfire compatible. To set up a dual or triple Crossfire-System, we offer special dual and triple links which allow you to easily connect the coolers.

HEATKILLER® are products by

**WATERCOOL**<sup>®</sup>  
quality cooling equipment

Please send your criticism, praise or suggestions to the following address:

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