

# 1 KOOLANCE MVR-40, MVR-100 Installation Guide v 1.0

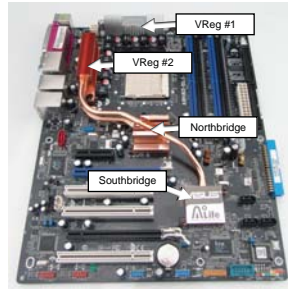
NOTE: The motherboard should be removed from the chassis in order to install this cooling device. This guide assumes the proper MVR-PLT Heat Transfer Plate(s) have already been purchased for your motherboard. For assistance in determining which MVR-PLT you might require, please visit: [http://www.koolance.com/product\\_wizard/mvr\\_help.php](http://www.koolance.com/product_wizard/mvr_help.php)



**CAUTION:** Removal of the original heat sink may void your manufacturer's hardware warranty. Please consult the manufacturer if unsure, and keep all original parts in case of a return/RMA.

The mainboard's stock VReg/MOSFET heat sink(s) must be removed in order to install an MVR water block. If these heat sinks are also connected to the northbridge (and/or southbridge) with heat pipes, the entire cooling assembly should be removed.

Any newly exposed areas must also be liquid cooled to avoid overheating. Please see the Koolance website ([www.koolance.com](http://www.koolance.com)) for a complete list of motherboard water blocks.



To remove the stock heat sinks, locate the locking pins and squeeze each together beneath the motherboard. (Some boards may use screws.) This will free the pins to be pulled out above the motherboard.



Once loose, remove the stock heat sink / heat pipe assembly.

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Spread thermal compound on the bottom (narrower) side of the MVR water block. It should be applied thinly and evenly using the included thermal paste packet, or a piece of thick paper (such as a business card).

Place the MVR-PLT heat transfer plate onto the bottom side of the water block. The plate's beveled screw holes should face away from the block:



Beveled screw holes



Tighten the MVR-PLT heat transfer plate to the MVR water block using the 2 included flat-topped screws.

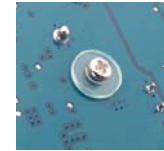
Remove the clear protective film from the white side of the MVR-PLT plate's thermal pad.



Place the thermal pad onto the bottom of the MVR-PLT heat transfer plate.

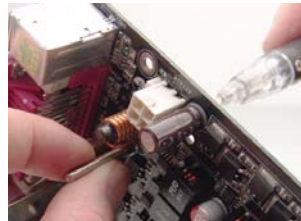


There should be at least two mounting holes in the motherboard at the ends of each VReg area. Insert the smallest screws through a plastic washer and up through the motherboard. Place a second washer on each screw above the board.



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Tighten a threaded metal mounting post onto each screw.



Tighten both swinging mounting arms to the top of the MVR water block with the larger screws. The arms should loop around the nearest mounting post.

The swinging arms are highly adjustable. Make sure they are not positioned in a way that will interfere with the water block's nozzles.

If you are using longer MVR heat transfer plates, additional threaded holes are provided at each end. Screw the metal hexagonal stand-offs into these holes on the same side as the water block.



The swinging mounting arms will attach to the hexagonal stand-offs instead of to the MVR water block directly.

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Lastly, place the thumb nuts onto both mounting posts and tighten.

