



AquaComputer cuplex kryos NEXT with VISION AM4, nickel/nickel

\$134.99

Product Images



Short Description

The cuplex kryos NEXT marks a new milestone in CPU water block development. Every detail has been analyzed, optimized and tested to achieve perfection in cooling performance, installation procedure and product features. The result is not just a CPU water block with outstanding performance - it is a product series with various models differing in color and functionality. The VARIO models are the first CPU water blocks globally to incorporate a real-time adjustable base - never before has it been possible to adjust the geometry of a CPU block to perfectly fit the CPU while the PC is in operation. Models with VISION module are equipped with modern electronics: High resolution OLED display, integrated water temperature sensor and USB interface are just three of the features.

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Features

Base part with micro structure

The base part of the cuplex kryos NEXT is equipped with an extremely fine micro structure, the structural width is lower than 200 µm. The coolant is injected centrally through a slot-shaped nozzle and then runs to both sides of the structure. The base itself is manufactured from copper, nickel plated copper or .925 sterling silver depending on model.

Retention system

The cuplex kryos NEXT retention system consists of 2.5 mm thick stainless steel plates equipped with nickel plated spring cups. Springs and knurled screws secure the water block on the motherboard, the retention system has a very clean look when installed. All retention system versions feature a mechanical stop for optimum clamping force and even force distribution. The knurled screws can be installed by hand, additionally a hexagon socket wrench can be used for easy installation.

Water blocks for socket 115x or AM3 include a steel back plate with silicone insulation to stabilize the CPU region of the motherboard. Socket 2011 or AM4 motherboards already include a back plate as part of the CPU socket, therefore no additional back plate is required.

For optimum performance, every cuplex kryos NEXT ships with outstanding thermal compound. A syringe with 0.5 grams of Thermal Grizzly Kryonaut is included, complete with plastic spatula. This compound has a high thermal conductivity and spreads out thin and evenly between CPU and water block due to its low viscosity. The amount is sufficient for approximately five applications.

VARIO: Adjustable geometry

The geometry of the base part of cuplex kryos NEXT VARIO variants can be adjusted using four adjusting screws on the sides of the water block. Each CPU is unique - even slightest variations in height or shape of the metallic lids on top of current CPUs affect cooling performance of a water block considerably. Prior concepts to adjust the geometry of water blocks always required the water block to be disassembled and then reinstalled onto the motherboard, requiring significant time and effort. With the cuplex kryos NEXT VARIO, the geometry is perfectly adjusted in just a few moments. While monitoring core temperatures at maximum CPU load, simply change the geometry using the four adjusting screws. Temperature changes provide an immediate feedback, the perfect setting is quickly identified.

VISION: Integrated electronics

The VISION variants of the cuplex kryos NEXT are equipped with a microcontroller board and OLED display. The features include:

- Water temperature sensor integrated in water block
- Connector for flow sensor, can alternatively be used as alarm output
- USB interface
- aquabus interface for communication with an aquaero 5 or 6
- Customizable display output
- Various hardware data can be displayed from the aquasuite software, for example current CPU load

The acrylic glass variants of the cuplex kryos NEXT with VISION are additionally equipped with a RGB LED that can be controlled depending on temperature or via USB.

Due to limited space, a maximum of two cables can be threaded into the water block. The following combinations are possible:

- USB and aquabus
- USB and flow sensor or alarm output
- aquabus and flow sensor or alarm output

Color variants

The top part of the water block is available in various materials and coatings:

- Acetal black: Shiny black high-tech plastic
- Acrylic glass: Transparent body suitable for illumination
- Copper: Reddish gloss
- Nickel plated brass: Bright metallic gloss
- PVD plated brass: High quality multi layer coating, dark metallic gloss

Material combination

Nickel/nickel: Top part nickel plated brass, base nickel plated copper

Specifications

Manufacturer: Aquacomputer

Material cooling plate: Copper plated

Cooling performance: Excellent

Connector: 2xG1/4

Material top cover: Brass

Socket: AMD AM4

Dimensions (L x B x H): 111 x 75 x 22 mm

Technical details

- Dimensions: Socket AM4: 111 x 75 x 22 mm (not including screws)
- Connection threads: G1/4
- Distance between threads: 24 mm

Scope of delivery

- Water block
- Mounting material (screws, springs, etc.)
- Thermal compound Thermal Grizzly Kryonaut, approx. 0.5 grams in syringe
- Plastic spatula
- Instruction manual

Additional Information

Brand	Aquacomputer
SKU	AQ-21711
Weight	1.5500
Color	Silver
CPU Series	AM4/PGA 1331
Block CPU Type	AMD
Block Style	Nickel
Vendor SKU/EAN	4260473311133

Internet Reviews

As a result of the many, many different versions the cuplex kryos NEXT comes in, there is something for nearly everyone to choose from. The review sample we have here today is among the very high end and has three novel features I really liked. The Flush Mount System is one of them, wherein you have a low-profile water block that also minimizes potential compatibility issues with components on the motherboard around it. But the main talking points here are without a doubt Aqua Computer's VARIO and VISION technologies. Where else are you going to see not just an integrated OLED display, but a full ARM microcontroller and temperature sensor supported by a lightweight but feature-rich driver? The VARIO technology meanwhile removes the question of "What if my CPU IHS is shaped differently from what the company modeled for?", and helps provide the best-possible fit within the design scheme for every individual CPU. Oh, did I mention the PVD coating is novel also and looks/feels absolutely fantastic in addition to having the practical benefits of being scratch resistant?

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