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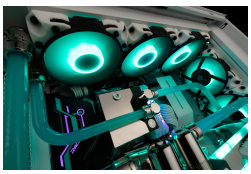
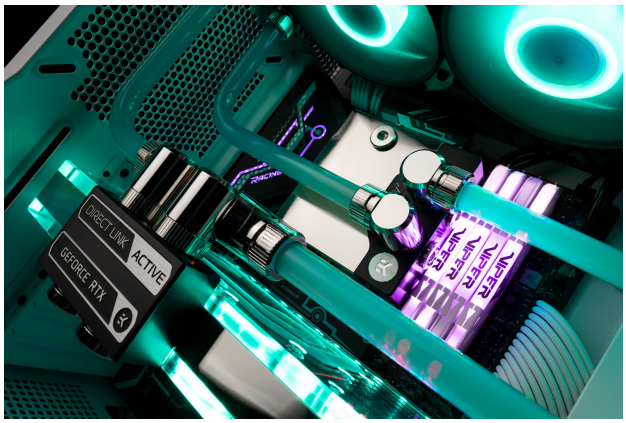
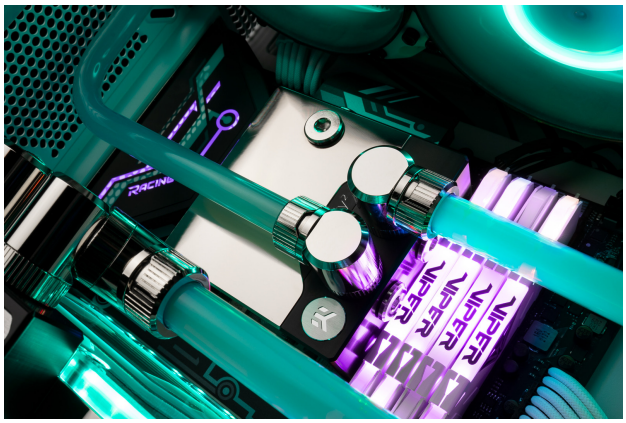
EK-Quantum Velocity² DDC 4.2 PWM D-RGB - 1700 Nickel + Plexi

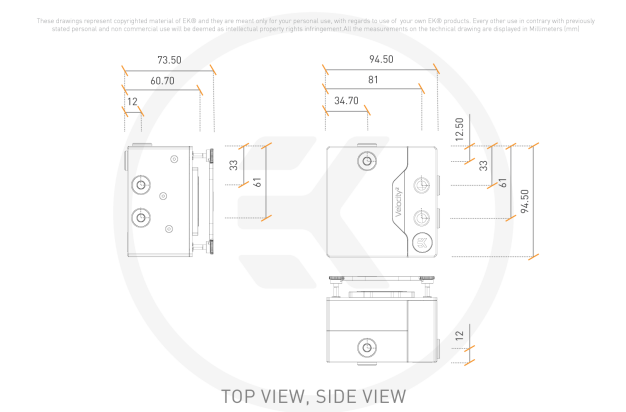
$339.90

Product Images









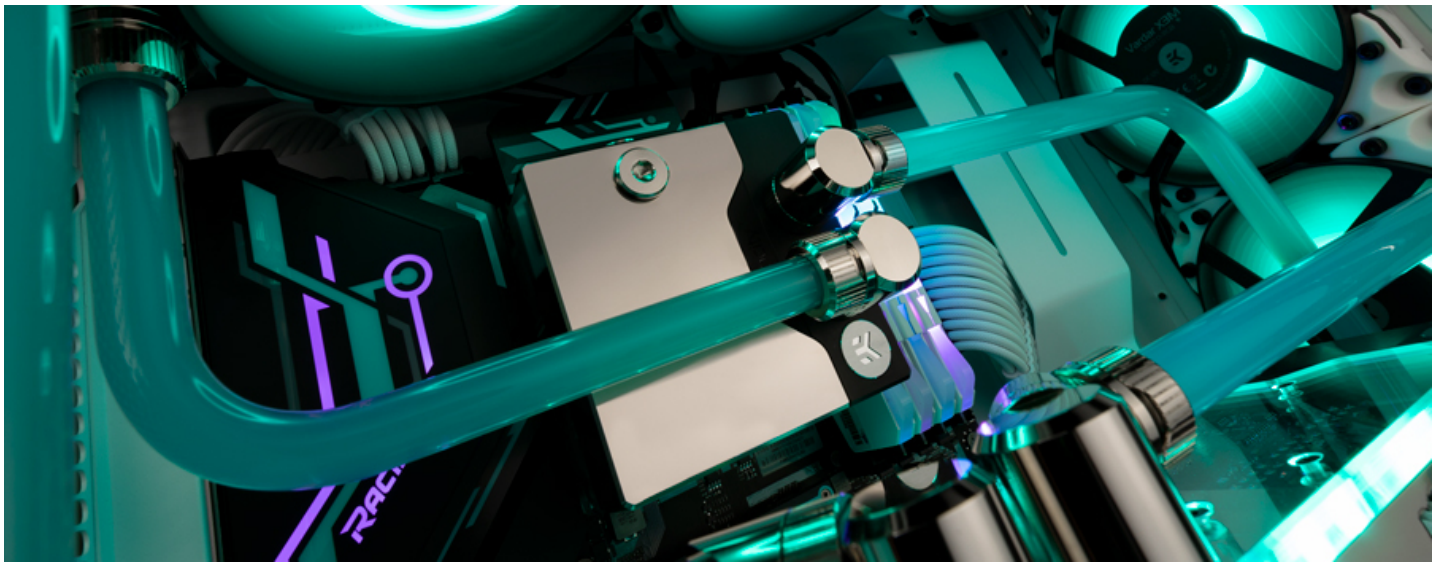
Short Description

EK-Quantum Velocity² DDC 4.2 PWM D-RGB - 1700 Nickel + Plexi is a unique pump-reservoir-water block combo for Intel® 12th Gen Core CPUs and LGA 1700 socket-based motherboards. It features the latest EK-Quantum Velocity² cooling engine that is socket-specific.

Description

Details

EK-Quantum Velocity² DDC 4.2 PWM D-RGB - 1700 Nickel + Plexi is a unique pump-reservoir-water block combo for Intel® 12th Gen Core CPUs and LGA 1700 socket-based motherboards. It features the latest EK-Quantum Velocity² cooling engine that is socket-specific. The CPU water block has an integrated genuine DDC 4.2 PWM pump, which is cooled by a metal part of the water block acting as a heatsink. It is the perfect companion for ITX (SFF) builds where space for a dedicated pump and reservoir is an issue. This product effectively combined 4 distinct products into a single small enclosure.



With this water block, you will not require a dedicated reservoir either, as it incorporates a small reservoir to ease the filling process, but also to ensure the water-lubricated DDC pump always has sufficient coolant not to run dry. It has two G1/4" fill ports to account for both vertical and horizontal motherboard mounting and two sets of inlets and outlets.

Features

DDC 4.2 PWM Pump with a Reservoir

This pump was chosen over the D5 due to its compact design. The quiet and powerful motor, in conjunction with its size, makes it ideally suited for heavy-duty cooling in environments where space is at a premium. The main difference between this DDC 4.2 PWM and a DDC 3.2 PWM is the black cabling, SATA power connector instead of MOLEX, and 32-bit communication.

Since DDC pumps benefit from additional cooling to ensure longer life and fewer issues, the nickel-plated brass top is used as a heatsink for the pump housing via thermal pads that transfer the heat away from the pump. Two fill ports are located in the brass top. Two sets of G1/4" inlets and outlets are made on the side of the block which is made of durable black acetal.

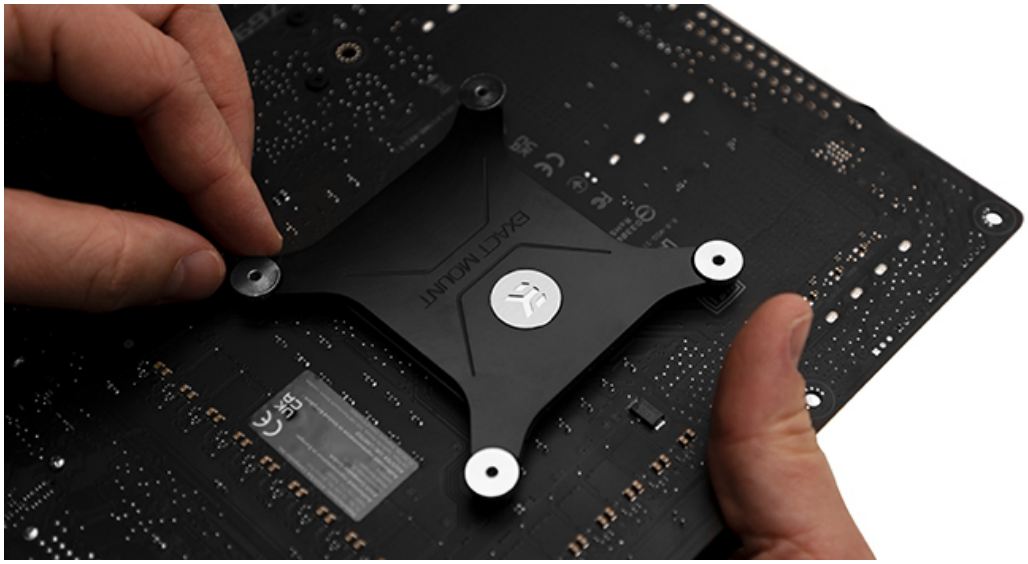
OptiFlow Cooling Engine

EK-Quantum Velocity² series CPU water blocks embed the next generation cooling engine named OptiFlow. They use a specific combination of mounting pressure and coldplate geometry tailored for the IHS and die layout of Intel LGA 1700 socket processors. Low hydraulic flow restriction enables these products to be used in setups using weaker water pumps or lower pump speeds for added silent operation while still achieving top performance! The lathe-turned coldplate is made with precision to effectively cover the IHS and put pressure on the die area.

Water Block Material and Manufacturing

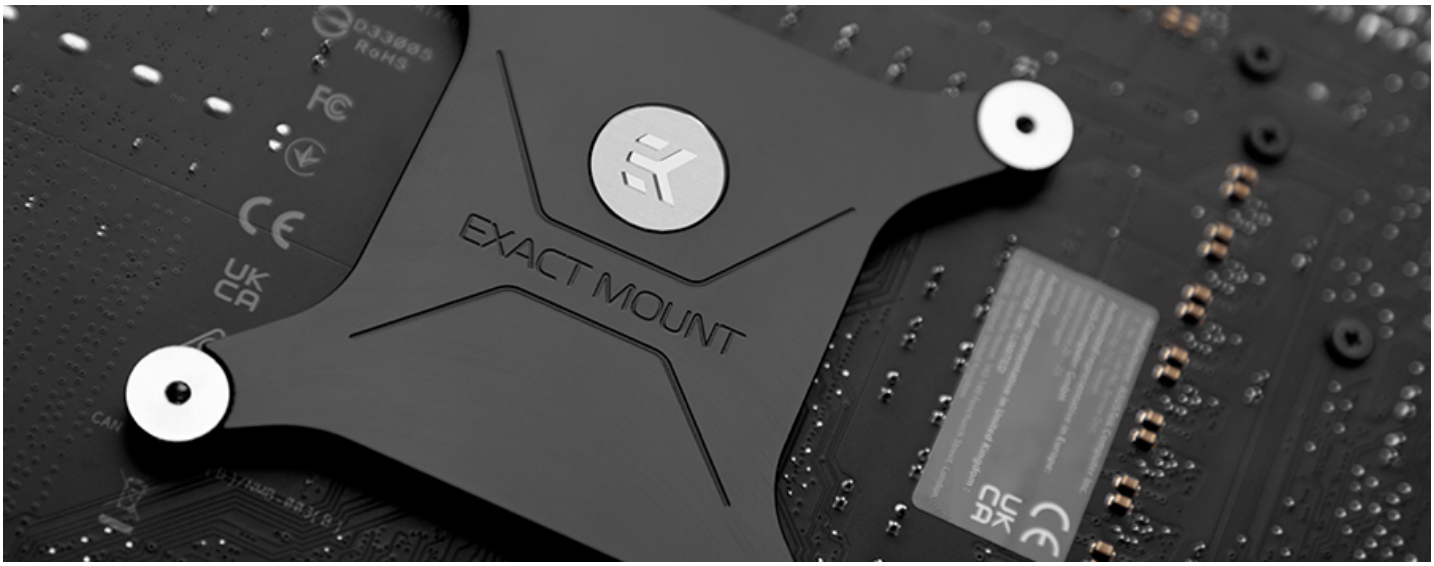
The coldplate is manufactured out of the highest-grade 99.99% pure electrolytic copper, machined with precision for the best possible contact and heat transfer which is further nickel-plated. The middle section is made of glass-like cast acrylic that is CNC-machined. On top of it stands the DDC pump with the block top that is made of CNC-machined nickel-plated brass.

EK-Quantum Velocity² Patent-pending Mounting



EK-Exact Mount is a patent-pending mounting system designed and engineered by EK in the search for an easy-to-use, but aesthetically pleasing mounting mechanism. It's made up of only three pieces - the backplate, mounting screws, and the water block itself. It's screwed in from the back, allowing for a seamless and clean front aesthetic without any screws disrupting the harmony of shape. The system uses pre-tensioned springs concealed in the water block top, so with just a few turns of the thumb nuts, the

installation is finished, and you get the exact mounting pressure needed.



EK-Quantum Velocity² D-RGB LED Lighting

This product is compatible with all popular addressable RGB sync technologies from all major motherboard manufacturers. The arrow marking on the 3-pin D-RGB LED connector is to be aligned with the +5V marking on the D-RGB header. The middle section of the block, which is made of glass-like acrylic, is lit with addressable 14 LEDs.

Specifications

Technical specifications:

- Dimensions (W x D x H): 94.5 x 60.7 x 94.5mm
- G1/4" ports: 6 ports, of which two are dedicated fill ports.
- Reservoir volume: 64ml
- D-RGB cable length: 50cm
- D-RGB connector 3-pin 5V digital LED header (Pinout: +5V | Digital | Blocked | Ground)
- LED count: 14
- DDC pump 32-bit communication 4-pin cable length : 75cm
- DDC pump SATA power cable length: 50cm

CPU socket compatibility:
- Intel LGA 1700

Enclosed:

- EK-Quantum Velocity² DDC 4.2 CPU Water Block + Pump Reservoir Combo
- Integrated DDC pump heatsink
- Mounting mechanism for socket LGA 1700
- Thermal interface material

Made in Slovenia - Europe!

PLEASE NOTE:

- This product should NOT be installed with any aluminum EK Fluid Gaming parts!

- The use of specifically engineered coolants that contain corrosion, scale, and biological inhibitors is mandatory to prevent damage to your nickel plated water block! EK is offering a selection of such products in the coolants section.
- The arrow marking on the 3-pin LED connector is to be aligned with the +5V marking on the D-RGB(A-RGB) header.
- DDC pumps are wet tested before shipping. While they are dried out before packaging, it can occasionally happen that the pump is deliver still slightly wet.

- If no PWM signal is present, DDC pump runs at 100% RPM.

Additional Info

	Nickel Plexi
	G1/4
	LGA 1700

Additional Information

Brand	EK Waterblocks
SKU	EK-QUANT-VEL2-DDC4.2-PWM-DRGB-1700-NP
Weight	2.5000
Color	Silver
CPU Series	Intel LGA 1700
Block CPU Type	Intel
Block Style	Nickel-Plexi
Vendor SKU/EAN	3831109897539
Pump Type	DDC