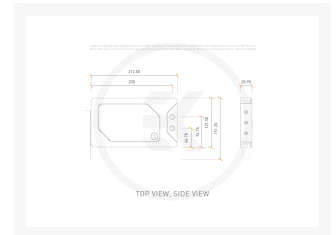
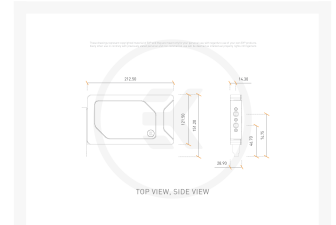




EK-Quantum Vector FE RTX 3090 Ti D-RGB - Silver Special Edition

Special Price
\$299.99 was
\$374.99

Product Images



Short Description

This is a Special Edition Silver EK water block enclosure engineered for the latest NVIDIA® GeForce® RTX™ 3090 Ti Founders Edition graphics cards.

Details

This is a Special Edition Silver EK water block enclosure engineered for the latest NVIDIA® GeForce® RTX™ 3090 Ti Founders Edition graphics cards. The cooling engine is the evolution of the 2nd generation EK® Quantum Vector GPU water blocks. This water block enclosure is only compatible with GeForce® RTX™ 3090 Ti Founders Edition graphics cards.



iF Design Award Winner

EK-Quantum Vector FE Special Edition water blocks are the recipients of the renowned iF Design Award. The award-winning design encases the block in a 20mm thick aluminum exoskeleton that forms a cradle to embed the cooling and lighting, revealing only the most beautiful elements to the user. The distinctive PCB shape of the Founders Edition card posed a design challenge, but a terminal between the two prongs of the PCB solved the issue. The result is a unique and unprecedented GPU water block.



Special Edition EK Water Block for Nvidia FE GeForce RTX 3090 Ti

Aside from the small form factor and unique shape of the RTX 3090 Ti Founders Edition PCB, EK has used a hybrid cooling solution for the backplate that is so far unique to the EK-Quantum Vector FE RTX 3090 and 3090 Ti water blocks and their backplates.

The water block is purpose-designed with an extremely thick copper base for high performance, allowing it to clear all components of the densely-packed PCB and adding more heat capacity in the process. The cooling engine used in this water block is the largest we've built to date, having more surface area than the rest of the Vector water blocks.

Build Quality

Like the Magnitude CPU water block, the entirety of this water block is CNC-machined without mass-production techniques. The block's base is milled out of a 12 mm thick piece of pure electrolytic copper sourced from Europe, which is then nickel-plated, while its top is CNC-machined out of a glass-like cast Acrylic material.



The external enclosure, which is not in any contact with the coolant, is machined out of a 20 mm thick solid piece of aluminum, which is afterward anodized into a gray color. The included single-slot I/O shield is supplied with special screws for attaching it to the aluminum enclosure in order to even out the entire water block's weight distribution. The watertight sealing is ensured by high-quality EPDM O-rings, while brass standoffs are already pre-installed and allow for a safe and easy installation procedure.

Cooling Engine

This Special Edition Vector water block directly cools the GPU, VRAM, and the VRM (voltage regulation module) as cooling liquid is channeled right over these critical areas. The water block is in contact with MOSFETs and chokes to maximize cooling and minimize the chances of unwanted coil whine. The flow paths are optimized to reduce hydrodynamic instabilities and vortexing (dead spots) inside of them.

The integrated Open Split-Flow cooling engine design proved to be a superior solution for GPU water blocks. It is characterized by low hydraulic flow restriction, meaning it can be used with weaker water pumps or

pumps running on low-speed settings and still achieve top performance.

The jet plate and fin structure geometry are optimized to provide even flow distribution with minimal losses and optimal performance when used in any given coolant flow orientation. The fin array is populated by 31 microfins with 0.6 mm wide microchannels that provide exceptional cooling performance without unnecessary flow restrictions or clogging hazards.

Hybrid Backplate

This water block comes with an included backplate that makes sure the entire graphics card is enclosed and not at all visible. The aluminum CNC-machined backplate has a ribbed texture in order to increase surface area for additional passive cooling power. The "active" cooling part is achieved through a section of the backplate contacting the coldplate, which is then directly cooled by the liquid. The Silver variant of this Special Edition water block has an anodized black aluminum backplate.



Special Terminal Design

The water block is delivered with a set of connection terminals, allowing users to swap them out based on their needs. One terminal has two direct G1/4" ports on the side, while the other one is more conventional, having four G1/4" ports going through the terminal.

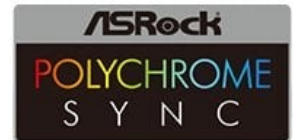
This design allows terminals to be directly attached to the copper cold plate of the GPU water block, making it more rigid and reducing the chances of damage. The terminal is neatly located between two prongs on the PCB, utilizing minimal space. This kind of design allows for incredible versatility, especially for Small Form Factor builds, and of course, more interesting aesthetics.

D-RGB Lighting on the EK-Quantum Vector FE RTX 3090 Ti D-RGB Water Block

This water block boasts individually addressable D-RGB LEDs that illuminate both the water block's interior and the terminal itself. It is compatible with all popular RGB Sync technologies from 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 (addressable) header.



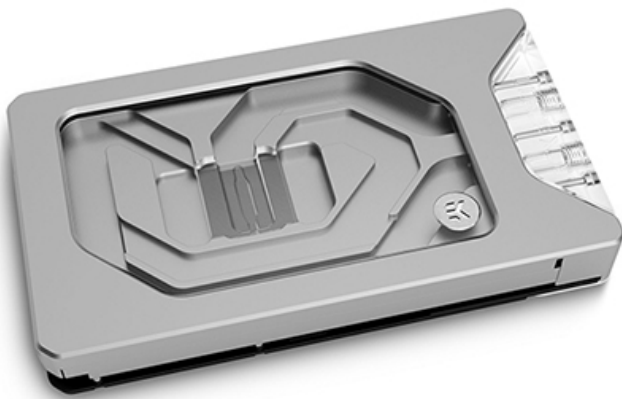
MYSTIC
LIGHT



Specifications

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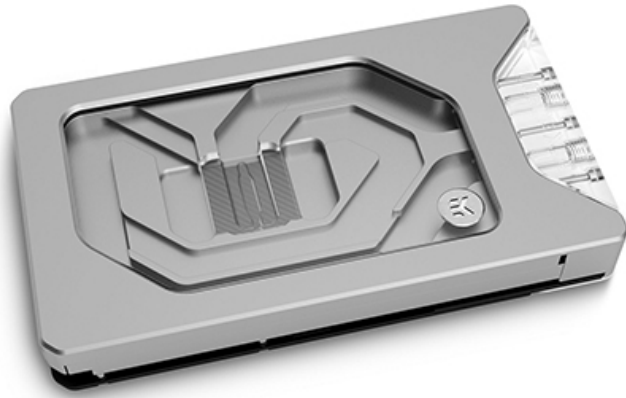
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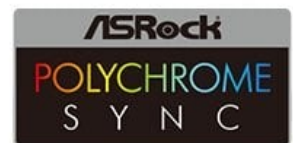
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MYSTIC
LIGHT



Technical Specification:

- Dimensions: (LxHxW) - 212.5x121.5x29mm
- D-RGB cable length: 500mm
- D-RGB connector standard 3-pin (+5V, Data, Blocked, Ground)

Made in Slovenia - Europe!

PLEASE NOTE:

- Due to the immense variety of fittings/barbs available on the market, we guarantee compatibility only with EK fittings.
- Factory backplates are not compatible with this water block!
- Check your toolbox if you are missing [this special Hex adapter](#) for some of the screws.

- This product should NOT be installed with any aluminum [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.

Additional Info

	Nickel Plexi
	G1/4
	Nvidia GeForce

Additional Information

Brand	EK Waterblocks
SKU	EK-QUANT-FE-RTX-3090-TI-DRGB-SSE-D
Weight	3.5000
Color	Silver
Vga	NVIDIA® GeForce® RTX™ 3090 Ti Founders Edition
Block GPU Type	Nvidia
Vendor SKU/EAN	3831109896877
Special Price	\$299.99

