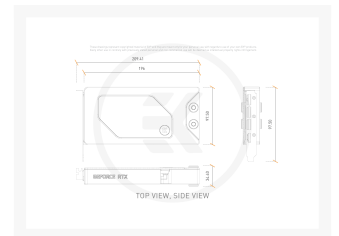




EK-Quantum Vector FE RTX 3070 Ti D-RGB - Silver Special Edition

Special Price
\$219.99 was
\$274.99

Product Images



Short Description

This is a Special Edition Silver EK water block enclosure engineered for the latest NVIDIA® GeForce® RTX™ 3070 Ti Founders Edition graphics cards.

Description

Details

This is a Special Edition Silver EK water block enclosure engineered for the latest NVIDIA® GeForce® RTX™ 3070 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™ 3070 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 3070 Ti

The EK-Quantum Vector FE RTX 3070 Ti D-RGB features a special PCB design just like its bigger brother, the RTX 3080 FE. The small form factor and unique shape of the RTX 3070 Ti Founders Edition PCB presented the same engineering challenge and was solved via a Special edition block.

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 roughly 30% more surface area than the rest of the Vector water blocks.

A Testament to the 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. 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.

Exclusive Backplate

This water block comes with an included backplate that makes sure the entire graphics card is enclosed and not at all visible. It also provides additional passive cooling for the GPU core and backside of the printed circuit board VRM section. Due to the small size of the card and the block itself, the ribbed backplate boasts an increased surface area for additional passive cooling power. It's made of nickel-plated aluminum.

Special Terminal Design

The water block is delivered with a terminal featuring 6 G1/4" ports. Two direct G1/4" ports on the side, and four G1/4" ports going through it - two from the top, and two from the bottom.

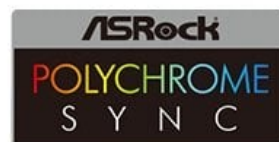
The new design allows terminals to be directly attached to the copper cold plate of the GPU water block, making it more rigid and reducing the chances of damage. The terminal is neatly located between two prongs on the PCB, utilizing minimal space. This kind of design allows for incredible versatility,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

D-RGB Lighting on the EK-Quantum Vector FE RTX 3070 Ti D-RGB Water Block

This water block boasts a whopping 20 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

Technical Specification:

- Dimensions: (LxHxW) - 209.5x97.5x28.5mm
- D-RGB cable length: 500mm
- D-RGB LED count: 20
- 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 Aluminium Plexi
	G1/4
	Nvidia GeForce

Additional Information

Brand	EK Waterblocks
SKU	EK-QUANT-FE-RTX-3070-TI-DRGB-SSE-D
Weight	3.5000
Color	Silver
Vga	Nvidia 3070 Ti Founders Edition
Block GPU Type	Nvidia
Vendor SKU/EAN	3831109860618
Special Price	\$219.99

