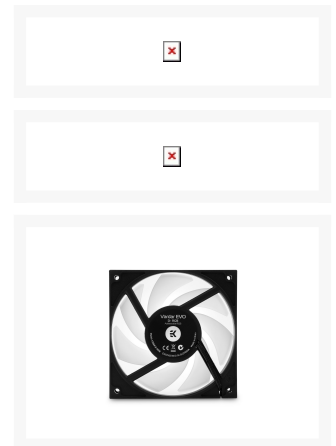




EK-Vardar EVO 120ER D- RGB (500-2200 rpm) Black

\$27.99

Product Images



Short Description

The EK-Vardar EVO 120ER D-RGB is a high-static pressure computer cooling fan, designed and built primarily for highest-performance computer liquid cooling systems. Developed in-house and first introduced in 2014, the EK-Vardar fan is now also available as EK-Vardar EVO 120ER D-RGB.

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The perfectly balanced milky colored 7 fan blade design is optimized for light dispersion and high-pressure operation while maintaining the low noise profile throughout the whole operation range of the fan. Under the motor hub, there is a total of 9 LEDs making this one of the brightest D-RGB fans on the market, ensuring perfect light diffusion at broad daylight as well.



One of the key features of the EK-Vardar D-RGB fans is its simplicity as it uses standard 3-pin 5V D-RGB connectivity. Meaning it can be used with any standard 3-pin 5V addressable D-RGB controller, like the [EK-Loop Connect](#), or any of popular RGB sync technologies from all major motherboard manufacturers. The arrow marking on the 3-pin LED connector is to be aligned with the +5V marking on the D-RGB (ARGB) header.

The Vardar family of cooling fans carries the notorious name of a type of the cold northwesterly wind blowing from the mountains down to the valleys of Macedonia. It is a type of ravine wind, enhanced by a channeling effect while blowing down through the Moravia-Vardar gap, bringing cold conditions from the north to the *Thessaloniki* area of Greece. Most frequent during winter, it is blowing in the rear of a depression when atmospheric pressure over eastern Europe is higher than over the Aegean Sea.

Features

Other key characteristics of the EK-Vardar EVO 120ER D-RGB fan are:

- High-static pressure / low noise profile – Unlike other general-purpose computer cooling fans, the EK-Vardar EVO 120ER D-RGB fan is built specifically for computer liquid cooling systems, namely radiator cooling. The Vardar's design and construction are also very suitable for high-performance air coolers or as case fans for restrictive cases with dust filters.
- High-quality motor and bearing assembly – New electrical design, actively cooled motor windings and the Dual-Ball bearing with 50.000 hours of lifespan (MTBF) ensures uninterrupted operation for years to come. Precise Pulse Width Modulation (PWM) for fan speed adjustment allows performance on demand.
- Sealed-edge fan casing – The classic, yet the effective square shape of the fan casing provides optimal performance in either pull- (suction) or push (pressure) regime without hydraulic losses thus ensuring the optimal cooling capacity of your liquid cooling radiators. The classic shape of the fan frame also allows easy cable routing while grouping more fans on one radiator.
- Timeless design – The EK-Vardar EVO 120ER D-RGB fan with its simple square frame fits into any liquid cooling computer without drawing too much attention to itself.
- Standard D-RGB connection – The Vardar D-RGB does not require any fancy and expensive additional controller for you to enjoy vibrant lighting effects. A simple 3-pin 5V addressable D-RGB connection for standard controllers or any popular D-RGB (ARGB) sync technology from major motherboard manufacturers.
- 0db regime - EK-Vardar EVO features a unique Start-Stop function which ensures the user a true 0db noise environment. When the fan curve is set with the minimum threshold point below 25-30% PWM duty cycle (depending on the motherboard model), the motor and the electronics will turn off and the fan will simply stop spinning. EK-Vardar EVO restarts operation automatically as fan control ramps up its operational duty cycle past threshold start-stop point. This feature is very useful for preventing radiator dust buildup in idling PCs and to prolong the lifecycle of the fan itself.
- Slim black cables - The Vardar RGB fan features simple slim black cables with no additional cable sleeving. This will enable easier cable routing and much less cable clutter.

Specifications

Mechanical and electrical specifications:

- Maximum speed: 2200 RPM (+/- 10%)
- Rated voltage: 12V DC
- Power draw: 2.16W
- LED power draw: ~0.7W (0.14A)
- PWM duty cycle: 25-100% - ER (Extended Range)

- Connector: 4-pin PWM header
- Shaft bearing: Dual-Ball bearing
- Bearing durability: 50.000 hrs @ 40°C (MTBF)
- Dimensions: 120 x 120 x 25 mm
- Black cable length: 500 mm
- RGB cable length: 500 mm
- RGB connector classic 3-pin (+5V, Data, Empty, Ground)

Performance characteristics:

- Max air flow: 77 CFM = 131 m³/h
- Static pressure: 3.16mm H₂O = 31 Pa
- Noise level: 33.5 dBA



The scope of delivery:

- EK-Vardar EVO 120ER D-RGB 120mm fan
- self-tapping screws (4 pcs)

Designed and engineered by EK Water Blocks in Slovenia - Europe
Made in China

PLEASE NOTE:

- It is normal for the EK-Vardar EVO 120ER D-RGB fan to stop spinning at low workload and during PC idling.
- The 0db Start-Stop function PWM threshold might vary from motherboard to motherboard model and even source PWM header.
- The minimal rotation speed of the fan might vary from motherboard to motherboard model and even source PWM header.
- For best results, EK recommends using the CPU_FAN header as the PWM signal source for controlling the fan.
- The installed D-RGB LEDs are compatible with every major motherboard manufacturer and mainstream aRGB controller via the 3-pin header.

Additional Information

Brand	EK Waterblocks
SKU	EK-VARDAR-120ER-DRGB-BK
Weight	0.6000
Color	Black
Fan Dimensions	120mm
Fan Width	25mm
Fan Connection	4-Pin PWM
Fan Voltage	12 VDC
Fan RPM	2200
Fan CFM	77
Fan Noise (dB)	33
LED Color	Addressable/Digital RGB
Vendor SKU/EAN	3831109824641

