



# EK-Vardar EVO 140ER D- RGB (400-1600 rpm)

\$30.99

## Product Images



## Short Description

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The EK-Vardar EVO 140ER 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 140ER 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 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

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- High-static pressure / low noise profile – unlike other general-purpose computer cooling fans, the EK-Vardar EVO 140ER 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 140ER D-RGB fan with its simple square frame fits into any liquid cooling computer without drawing too much attention to itself.
- Standard 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

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- Mechanical and electrical specifications:
  - Maximum speed: 1600 rpm (+/- 10%)
  - Rated Voltage: 12V DC
  - Power Draw: 1.57W
  - LED Power Draw: ~2.4W (0.2A)
  - 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: 140 x 140 x 25 mm
  - Black cable length: 50cm
  - RGB cable length: 50cm
  - RGB connector classic 3-pin (5V+, Data, Blocked, Ground)

Performance characteristics:

- Max Air Flow: 84 CFM = 143 m<sup>3</sup>/h
- Static Pressure: 1.90mm H<sub>2</sub>O = 18.6 Pa
- Sleeved cable length: 230 mm
- Noise Level: 31.6 dBA

The scope of delivery:

- EK-Vardar EVO 140ER D-RGB 140mm fan
- self-tapping screws (4 pcs)

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

## Additional Information

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Brand	EK Waterblocks
SKU	EK-VARDAR-EVO-140ER-DRGB
Weight	0.6000
Color	Black
Fan Dimensions	140mm
Fan Width	25mm
Fan Connection	4-Pin PWM
Fan Voltage	12 VDC
Fan RPM	1600
Fan CFM	84
Fan Noise (dB)	32
LED Color	Addressable/Digital RGB
Vendor SKU/EAN	3830046995469

