



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

Special Price
\$10.50 was
~~\$20.99~~

Product Images





Short Description

EK-Vardar EVO is industrial grade 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, renowned EK-Vardar fans have now evolved into new EK-Vardar EVO lineup. EK-Vardar EVO fans with Extended range (ER) of PWM operation feature a special Start-Stop function which brings a true 0db experience for the absolute silent fan operation. EK-Vardar EVO is simply the best choice for computer radiator cooling as it provides unmatched performance throughout the entire operating range.

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The Vardar family of cooling fans carries the 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

High-static pressure / low noise profile - unlike other general-purpose computer cooling fans, the EK-Vardar family of fans is built specifically for computer liquid cooling systems, namely radiator cooling. The 7 fan blade design is optimized for high-pressure operation while maintaining the low noise profile throughout the

whole operation range of the fan. 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.

0db regime - EK-Vardar EVO features a unique Start-Stop function which ensures the user a true 0db noise environment. When 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.

Timeless design - the EK-Vardar EVO fan fits subtly into any liquid cooling computer without drawing too much attention. Delivered in all white color scheme it blends perfectly with a sleek and minimalist looking EK-CoolStream liquid cooling radiator.

Specifications

Mechanical and electrical specifications:

- Maximum speed: 2200 RPM (+/- 10%)
- Rated Voltage: 12V DC
- Power Draw: 2.16W
- 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

Performance characteristics:

- Max Air Flow: 77 CFM = 131 m³/h
- Static Pressure: 3.16mm H₂O = 31 Pa
- Sleeved cable length: 300 mm
- Noise Level: 33.5 dBA



The scope of delivery:

- EK-Vardar EVO BB series 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 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 radiator is just for showcase and it is not included!

Additional Information

Brand	EK Waterblocks
SKU	EK-VARDAR-EVO-120ER-BK-D
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)	34
Vendor SKU/EAN	3830046999863
Special Price	\$10.50

