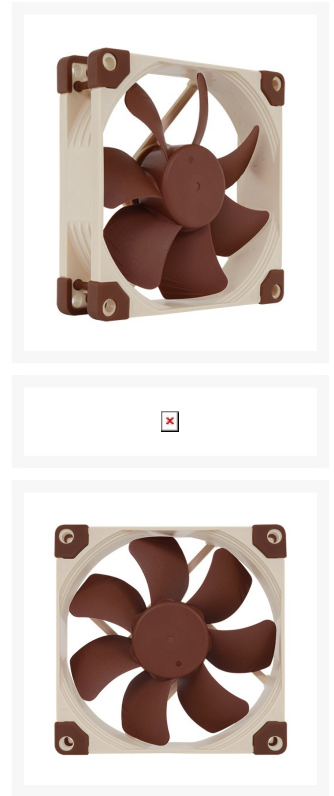




# Noctua NF-A9 PWM Quiet Computer Fan 92mm

\$20.95

## Product Images





## Short Description

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The NF-A9 is a highly optimised, premium quality quiet 92mm fan. Featuring Noctua's AAO (Advanced Acoustic Optimisation) frame as well as sophisticated aerodynamic design measures such as Flow Acceleration Channels, the NF-A9 further improves the renowned quiet cooling performance of the award-winning NF-B9.

## Description

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## Features

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Succeeding the award-winning NF-R9 Noctua's NF-B9 fan has become a default-choice among PC enthusiasts looking for a premium quality quiet 92mm fan. Thanks to its thoroughgoing aerodynamic optimisations, the NF-A9 provides higher static pressure and an even better airflow/noise ratio than its much acclaimed predecessor.



#### Flow Acceleration Channels

The NF-A9 impeller features suction side Flow Acceleration Channels. By speeding up the airflow at the crucial outer blade regions, this measure reduces suction side flow separation and thus leads to better efficiency and lower vortex noise.



#### AAO Frame

Noctua's AAO (Advanced Acoustic Optimization) frames feature integrated anti-vibration pads as well as Noctua's proprietary Stepped Inlet Design and Inner Surface Microstructures, both of which further refine the fan's performance/noise efficiency.



#### Stepped Inlet Design

Noctua's Stepped Inlet Design adds turbulence to the influx in order to facilitate the transition from laminar flow to turbulent flow, which reduces tonal intake noise, improves flow attachment and increases suction capacity, especially in space restricted environments.



#### Inner Surface Microstructures

With the tips of the fan blades ploughing through the boundary layer created by the Inner Surface Microstructures, flow separation from the suction side of the blades is significantly suppressed, which results in reduced blade passing noise and improved airflow and pressure efficiency.



#### Noctua Integrated Anti-Vibration Pads

Integrated Anti-Vibration Pads made from extra-soft silicone minimise the transmission of minute vibrations while maintaining full compatibility with all standard screws and other mounting systems.



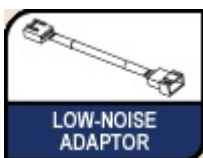
#### SSO2 Bearing

The NF-A9 features the further optimized second generation of Noctua's renowned, time-tested SSO bearing. With SSO2, the rear magnet is placed closer to the axis to provide even better stabilization, precision and durability.



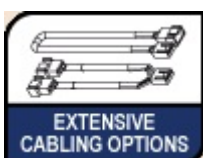
#### Custom designed PWM IC with SCD

Supporting fully automatic PWM speed control, the NF-A9 uses Noctua's novel, custom designed NE-FD1 PWM IC that integrates Smooth Commutation Drive (SCD) technology. By providing smoother torque impulses, SCD suppresses PWM switching noises and thus makes the fan quieter at lower speeds.



#### Low-Noise Adaptor

The NF-A9 PWM is supplied with a Low-Noise Adaptor (L.N.A.) that reduces the maximum fan speed from 2000 to 1550rpm. The L.N.A can be used either to run the fan at a fixed speed of 1550rpm or to cap the maximum speed when using automatic PWM control.



#### Extensive Cabling Options

The fan's short 20cm primary cable minimises cable clutter in typical applications while the supplied 30cm extension provides extended reach when necessary. Both cables are fully sleeved and a 4-pin y-cable allows to connect a second NF-A8 fan to the same PWM fan header for automatic control.



#### 6 years Manufacturer's Warranty

Noctua fans are renowned for their impeccable quality and outstanding longevity. Like all Noctua fans, the NF-A9 features an MTBF rating of more than 150.000 hours and comes with a full 6 years manufacturer's warranty.

## Specifications

Size	92x92x25 mm
Connector	4-pin PWM
Bearing	SSO2
Blade Geometry	A-Series with Flow Acceleration Channels
Frame Technology	AAO (Advanced Acoustic Optimization)
Rotational Speed (+/- 10%)	2000 RPM
Rotational Speed with L.N.A. (+/- 10%)	1550 RPM
Min. Rotational Speed (PWM)(+/- 10%)	400 RPM
Airflow	78.9 m <sup>3</sup> h - 46.44
Airflow with L.N.A.	62.6 m <sup>3</sup> h - 36.84
Acoustical Noise	22.8 dB(A)
Acoustical Noise with L.N.A.	16.3 dB(A)
Static Pressure	2.28 mm H <sub>2</sub> O
Static Pressure with L.N.A.	1.53mm H <sub>2</sub> O
Max. Input Power	1.2 W
Input Current	0.01 A
Voltage Range	12V
MTBF	> 150,000 h
Scope of Delivery	<ul style="list-style-type: none"> <li>• Low-Noise Adapter (L.N.A.)</li> <li>• 4-Pin Y_Cable</li> <li>• 30cm Extension Cable</li> <li>• 4 Vibration Compensators</li> <li>• 4 Fan Screws</li> </ul>
Warranty	6 years

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Brand	Noctua
SKU	NF-A9-PWM
Weight	1.2000
Color	Brown
Fan Dimensions	92mm
Fan Width	25mm
Fan Connection	3-Pin
Fan Voltage	12 VDC
Fan RPM	2000
Fan CFM	79
Fan Noise (dB)	23



## Additional Information