



# Noctua NF-P12 PWM Quiet Computer Cooling Fan 120mm Fan - Sleeved

\$21.95

## Product Images



## Short Description

Specifically conceived for pressure demanding applications such as CPU cooling, the classic NF-P12 120mm

fan helped to found Noctua's reputation as a top-tier manufacturer of premium quality quiet cooling components and still impresses users with its exquisite quietness and superb performance. The new PWM version features Noctua's novel, custom designed PWM IC for fully automatic control and ultra-low power consumption. Equipped with Noctua's signature SSO-Bearings and topped off with a 6 years manufacturer's warranty, the NF-P12 PWM is a proven premium choice for the highest demands.

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## Features

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### Proven NF-P12 Design



Proven NF-P12 Design Tens of thousands of quiet cooling enthusiasts swear by Noctua's classic NF-P12. Its impressive quietness, excellent performance and impeccable, time-tested quality made the P12 a default choice for 120mm quiet cooling.

### Pressure-optimized Nine-Blade Design



Designed for pressure demanding applications such as heatsinks and radiators, the Focused Flow™ frame features eleven stator guide vanes that straighten, channel and focus the airflow, which allows the NF-F12 to rival the performance of conventional fans running at much faster speeds.

[More Information](#)

### Vortex Control Notches



Noctua's signature Vortex-Control Notches split up trailing edge vortices and thus spread the fan's noise emission over a wider range of frequencies. This measure makes the NF-P12 PWM sound more pleasant to the human ear.

[More Information](#)

### SSO Bearing



Combining the proven concept of hydrodynamic bearing with an additional magnet that supports the self-stabilisation of the rotor axis, Noctua's time-tested SSO-Bearing technology has become synonymous with supremely quiet operation and exceptional long-term stability.

[More Information](#)

### Custom designed PWM IC with SCD



Supporting fully automatic PWM speed control, the NF-P12 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.

[More Information](#)

### Ultra-Low Power Consumption



The NF-P12 draws only 0.6W, which is more than 50% less than many fans in the same speed range. This doesn't only make it eco-friendly but also cuts down the electricity bill: Compared to a typical 2W fan, this allows you to save about half the price of the NF-P12 after 5 years of continuous use.

### Low-Noise Adapter



The NF-P12 is supplied with a Low-Noise Adapter (L.N.A.) that reduces the maximum fan speed from 1300 to 900rpm. The L.N.A can be used either to run the fan at a fixed speed of 900rpm or to cap the maximum speed when using automatic PWM control.



#### Extensive Cabling Options

The fan's short 20cm primary cable minimizes 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-P12 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-P12 features an MTBF rating of more than 150.000 hours and comes with a full 6 years manufacturer's warranty.

## Specifications

Noctua NF-P12 PWM Product Specification.	
Size	120x120x25 mm
Connector	4-pin PWM
Bearing	SSO2-Bearing
Blade Geometry	Pressure-optimized Nine Blade Design with Vortex-Control Notches
Rotational Speed (+/- 10%)	1300 RPM
Rotational Speed with L.N.A. (+/- 10%)	300 RPM
Min. Rotational Speed (PWM)(+/- 10%)	300 RPM
Airflow	92.3 m³
Airflow with L.N.A.	63.4m³
Acoustical Noise	19.8 dB(A)
Acoustical Noise with L.N.A.	12.6 dB(A)
Static Pressure	1.68 mm H2O
Static Pressure with L.N.A.	1.21 mm H2O
Max. Input Power	0.6 W
Input Current	0.05 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

## Additional Information

Brand	Noctua
SKU	NF-P12-PWM
Weight	0.6000
Color	Brown
Fan Dimensions	120mm
Fan Width	25mm
Fan Connection	4-Pin PWM
Fan Voltage	12 VDC
Fan RPM	1300
Fan CFM	54
Fan Noise (dB)	20

