

NF-P12 PWM

Noctua NF-P12 PWM Premium Fan



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 bearing and topped off with a 6 years manufacturer's warranty, the NF-P12 PWM is a proven premium choice for the highest demands.

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

Specifically developed for high-impedance applications such as CPU coolers, water-cooling radiators or cases with tight fan grills, the NF-P12 PWM provides outstanding pressure and airflow performance.

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.

Custom designed PWM IC with SCD

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

Ultra-Low Power Consumption

The NF-P12 PWM draws only 0.6W, which is more than 50% less than many other PWM fans. 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 Adaptor

The NF-P12 PWM is supplied with a Low-Noise Adaptor (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 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-P12 fan to the same PWM fan header for automatic control.

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.

6 years manufacturer's warranty

Noctua fans are renowned for their impeccable quality and outstanding longevity. Like all Noctua fans, the NF-P12 PWM features an MTBF rating of more than 150.000 hours and comes with a full 6 years manufacturer's warranty.



SPECIFICATIONS

Size	120 x 120 x 25 mm	
Bearing	SSO-Bearing	
Blade Geometry	Pressure-optimized Nine Blade Design with Vortex-Control Notches	
Max. Input Power	1.2 W	
MTBF	> 150.000 h	
NF-P12 PWM	w/o adaptors	with L.N.A.
Max. Rotational Speed	1300 RPM	900 RPM
Max. Airflow	92.3 m ³ /h	63.4 m ³ /h
Max. Acoustical Noise	19.8 dB(A)	12.6 dB(A)
Max. Static Pressure	1.68 mmH ₂ O	1.21 mmH ₂ O

LOGISTICAL DATAS

Product Labeling
Noctua NF-P12 PWM

EAN-No.
471612331474-5

UPC-No.
84243101409-2

Dimensions (HxWxD)
210 x 150 x 34 mm

Weight
360 gr

Warranty
6 Years

MSPR
19.90 EUR

Packaging Unit
36 Pcs.

Dimensions / Unit (HxWxD)
39 x 38 x 36 mm

Weight / Unit
13.5 kg

SCOPE OF DELIVERY

NF-P12 PWM 120mm Premium Fan

Low-Noise Adaptor (L.N.A.)

4-Pin Y-Cable

30cm Extension Cable

4 Vibration-Compensators

4 Fan Screws