

NF-A12x25 FLX

Noctua NF-A12x25 FLX Premium Fan



LOGISTIC DATA

Product name
Noctua NF-A12x25 FLX

EAN
9010018100389

UPC
841501110382

Packaging dimensions (HxWxD)
210x150x34 mm

Weight incl. packaging
362 g

Warranty
6 years

Packaging unit
36 pcs

Packaging dimensions / unit (HxWxD)
375x380x380 mm

Weight incl. packaging / unit
14.64 kg

SCOPE OF DELIVERY

NF-A12x25 FLX premium fan

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

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

30cm extension cable

3-4-pin adaptor

4x anti-vibration mounts

4x fan screws

Anti-vibration gasket for watercooling radiators

The NF-A12x25 FLX is a highly optimised next-generation 120mm fan that integrates Noctua's latest innovations in aerodynamic engineering in order to achieve an unprecedented level of quiet cooling performance. It takes state-of-the-art technologies such as the AAO (Advanced Acoustic Optimisation) frame or Flow Acceleration Channels and combines them with a record tight tip clearance of only 0.5mm, which is made possible by using the novel Sterrox® liquid-crystal polymer (LCP) compound as well as a metal-reinforced motor hub and axis for ultimate precision. Following the approach of Noctua's A-series, the NF-A12x25 FLX is a true all-rounder that yields superb results in all types of usage, regardless of whether it's in low-impedance, airflow-oriented applications such as case cooling, or high-impedance, pressure-demanding scenarios such as on heatsinks and watercooling radiators. The 3-pin FLX version provides 2000/1700/1350rpm speed settings via the supplied Low-Noise Adaptors so as to give full flexibility in configuring the fan for maximum cooling capacity or near-silent acoustics. Topped off with exceptional running smoothness, Noctua's reference-class SS02 bearing, a rich bundle of accessories and 6-year manufacturer's warranty, the NF-A12x25 FLX is a premium-quality product through and through. Its superior efficiency, cutting-edge construction and pioneering materials make it an elite choice for the most discerning demands.

Next-generation performance

Noctua's 120mm fans such as the NF-F12 and NF-S12A are renowned as being among the best on the market and have received more than 400 awards and recommendations from the international press. With its further improved efficiency and novel, state-of-the-art engineering, the NF-A12x25 FLX represents another step up in performance and manufacturing.

Highly optimised P/Q curve for all applications

The NF-A12x25 FLX's sophisticated aerodynamic design allows for a pressure to airflow (P/Q) curve that is extremely strong in the critical mid-section. This means that the NF-A12x25 FLX is a true jack-of-all-trades with excellent performance in both static pressure demanding and airflow demanding applications.

Excellent on-application acoustics

While many fans produce unpleasant, high-pitched noises when installed in typical applications such as on heatsinks or radiators, the NF-A12x25 FLX has been carefully fine-tuned for optimal on-application acoustics. It produces a smooth, pleasant frequency profile and surprisingly low sound pressure levels (SPL) when working against back pressure.

Ultra-tight tip clearance

The NF-A12x25 FLX has a record tight tip clearance (distance between the blade tips and the inside of the frame) of only 0.5mm. This highly ambitious design sets a new benchmark for 120mm fans and helps the NF-A12x25 FLX to work more efficiently against back pressure, such as on heatsinks or radiators, by reducing leak flows through the gap between impeller and frame.

3 speed settings for full flexibility

Providing 2000, 1750 and 1350rpm speed settings via the supplied Low-Noise and Ultra-Low-Noise Adaptors, the NF-A12x25 FLX (Flexibility) can be fine-tuned for superior airflow or maximum quietness.

Anti-vibration gasket for watercooling radiators

The NF-A12x25 FLX includes a silicone gasket that can be used when installing the fan on watercooling radiators or other applications that benefit from a tighter seal with the fan. The gasket helps to dampen minute vibrations and to reduce air loss between the fan and the radiator for optimal cooling performance.

6-year manufacturer's warranty

Noctua fans are renowned for their impeccable quality and outstanding longevity. Like all Noctua fans, the NF-A12x25 FLX features an MTTF of more than 150,000 hours rating and comes with a full 6-year manufacturer's warranty.

SPECIFICATIONS

Dimensions	120x120x25 mm
Bearing	SS02
Connector	3-pin
Blade geometry	A-Series with Flow Acceleration Channels
Max. input power / voltage	1.68 W / 12 V
MTTF	> 150,000 h

NF-A12x25 FLX	w/o adaptor	with L.N.A.	with U.L.N.A.
Max. rotational speed (+/-10%)	2000 RPM	1700 RPM	1350 RPM
Max. airflow	102.1 m³/h	84.5 m³/h	64.5 m³/h
Max. acoustical noise	22.6 dB(A)	18.8 dB(A)	14.2 dB(A)
Max. static pressure	2.34 mmH₂O	1.65 mmH₂O	1.05 mmH₂O