# Noctua NF-S12A FLX Premium Fan



### LOGISTIC DATA

Product Name
Noctua NF-S12A FLX
EAN-No.
471612331490-5
UPC-No.
84243101423-8
Dimensions (HxWxD)
212 x 152 x 37 mm
Weight
285 gr
Warranty
mananiy
6 years
6 years
<b>6 years</b> MSPR
6 years MSPR 19.90 EUR
6 years MSPR 19.90 EUR Packaging Unit
6 years MSPR 19.90 EUR Packaging Unit 40 Pcs.
6 years MSPR 19.90 EUR Packaging Unit 40 Pcs. Dimensions / Unit (HxWx0)
6 years MSPR 19.90 EUR Packaging Unit 40 Pcs. Dimensions / Unit (HxWxD) 390 x 390 x 360 mm

# SCOPE OF DELIVERY

NF-S12A FLX 120mm Premium Fan	
Low-Noise Adaptor (L.N.A.)	
Ultra-Low-Noise Adaptor (IU.L.N.A)	
3:4 Pin Adaptor	
30cm Extension Cable	
4 Vibration-Compensators	
4 Fan Screws	

The NF-S12A marks the third generation of Noctua's signature S12 series quiet case fans, which have received more than 250 awards and recommendations from the international press. Featuring a further refined blade design with Anti-Stall Knobs that works in tandem with the new AAO (Advanced Acoustic Optimisation) frame, the NF-S12A improves the airflow/noise efficiency of its renowned predecessor by up to 8%. The FLX version provides 1200/900/700rpm speed settings via the supplied Low-Noise Adaptors in order to give you full flexibility in fine-tuning the fan for maximum ventilation performance or near-silent operation. Its superb running smoothness, SS02 bearing and Noctua's trusted premium quality make it an elite choice for quiet case cooling.

#### Anti-Stall Knobs

The NF-S12A's Anti-Stall Knobs reduce flow separation phenomena in medium to high impedance situations and thereby increase the fan's stall margin. This means that the NF-S12A FLX is even more versatile than its renowned predecessor and can achieve better performance on heatsinks and radiators.

#### Flow Acceleration Channels

The NF-S12A FLX 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 Optimisation) 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.

#### SSO2 Bearing

The NF-S12A FLX features the further optimised 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 stabilisation, precision and durability.

#### 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.

#### Smooth Commutation Drive 2

The latest version of Noctua's advanced Smooth Commutation Drive system ensures superb running smoothness by eliminating torque variations and switching noises. This makes the NF-S12A FLX remarkably quiet even at very close distance.

#### 3 speed settings for full flexibility

Providing 1200, 900 and 700rpm speed settings via the supplied Low-Noise and Ultra-Low-Noise Adaptors, the NF-S12A FLX (Flexibility) can be fine-tuned for superior airflow or maximum quietness.

#### 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 the supplied 3:4 pin adaptor allows to connect the fan directly to the power supply.

#### 6 years manufacturer's warranty

Noctua fans are renowned for their impeccable quality and outstanding longevity. Like all Noctua fans, the NF-S12A FLX features an MTBF of more than 150.000 hours rating and comes with a full 6 years manufacturer's warranty.

## SPECIFICATIONS

Size	120 x 120 x 25 mm
Bearing	SSO2-Bearing
Blade Geometry	
Max. Input Power//Operating Voltage	1.44 W/12V
MTBF	> 150.000 h

NF-S12A FLX	w/o Adaptor	with L.N.A.	with U.L.N.A.
Max. Rotational Speed (+/-10%)	1200 RPM	900 RPM	700 RPM
Max. Airflow	107.5 m³/h	83.2m³/h	65.8 m³/h
Max. Acoustical Noise	17.8 dB(A)	10.7 dB(A)	7.4 dB(A)
Max. Static Pressure	1.19 mmH20	0.73 mmH20	0.51 mmH20



Designed in Austria, Nactua's premium cooling components are internationally renowned for their superb quietness, exceptional performance and thoroughgoing quality. Having received more than 1000 awards and recommendations from leading hardware websites and magazines, Noctua's fans and heatsinks are chosen by more than a hundred thousand satisfied customers around the globe.

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