

Noctua NF-A4x20 FLX Premium Fan

NF-A4x20 FLX



Featuring advanced aerodynamic design measures such as Flow Acceleration Channels and Noctua's AAO frame, the NF-A4x20 FLX is a highly optimised, premium-quality quiet fan in size 40x20mm. The FLX version provides 5000/4400/3700rpm speed settings via the supplied Low-Noise Adaptors and includes the OmniJoin™ Adaptor Set for easy connection to proprietary fan headers. Its superb running smoothness, reference-class SSO2 bearing and Noctua's trusted premium quality make it an elite choice for the highest demands.

40x20mm size

Compared to Noctua's award-winning NF-A4x10, the NF-A4x20 is twice as thick, which allows for increased static pressure performance and makes the NF-A4x20 ideal for demanding applications with high flow resistance.

Flow Acceleration Channels

The NF-A4x20 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.

3 to 2-pin Adaptor and polarity protection

The NF-A4x20 FLX comes with an adaptor for linking a 3-pin Molex to the 2-pin connectors used on many network and storage devices. An integrated diode provides polarity protection on 2-pin connections.

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.

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.

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-A4x20 FLX remarkably quiet even at very close distance.

SSO2 bearing

The NF-A4x20 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 mounting systems and fan clips used on heatsinks.

OmniJoin Adaptor Set

Many devices featuring 40mm fans use proprietary fan headers, so the NF-A4x20 FLX comes with Noctua's OmniJoin Adaptor Set. Just cut the original fan's cable, fix it to the adaptor using the supplied cable connectors and you can plug the NF-A4x20 FLX to proprietary fan headers!

6-year manufacturer's warranty

Noctua fans are renowned for their impeccable quality and outstanding longevity. Like all Noctua fans, the NF-A4x20 FLX features an MTTF of more than 150,000 hours rating and comes with a full 6-year manufacturer's warranty.

LOGISTIC DATA

Product name
Noctua NF-A4x20 FLX

EAN
9010018100112

UPC
841500110116

Packaging dimensions (HxWxD)
210x150x34 mm

Weight incl. packaging
180 g

Warranty
6 years

Packaging unit
40 pcs

Packaging dimensions / unit (HxWxD)
395x380x380 mm

Weight incl. packaging / unit
9.00 kg

SCOPE OF DELIVERY

NF-A4x20 FLX premium fan

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

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

OmniJoin Adaptor

30cm extension cable

4x anti-vibration mounts

4x fan screws



SPECIFICATIONS

Dimensions	40x40x20 mm		
Bearing	SSO2		
Connector	3-pin		
Blade geometry	A-Series with Flow Acceleration Channels		
Max. input power / voltage	0.6 W / 12 V		
MTTF	> 150,000 h		

NF-A4x20 FLX	w/o adaptor	with L.N.A.	with U.L.N.A.
Max. rotational speed (+/-10%)	5000 RPM	4400 RPM	3700 RPM
Max. airflow	9.4 m³/h	8.3 m³/h	6.9 m³/h
Max. acoustical noise	14.9 dB(A)	12.2 dB(A)	8.5 dB(A)
Max. static pressure	2.26 mmH ₂ O	1.75 mmH ₂ O	1.23 mmH ₂ O

Designed in Austria, Noctua's premium cooling components are internationally renowned for their superb quietness, exceptional performance and thoroughgoing quality. Having received more than 6000 awards and recommendations from leading hardware websites and magazines, Noctua's fans and heatsinks are serving hundreds of thousands of satisfied customers around the globe.