

# Noctua NF-A8 FLX Premium Fan

# NF-A8 FLX



The NF-A8 is a highly optimised, premium quality quiet 80mm fan. Featuring Noctua's AAO (Advanced Acoustic Optimisation) frame as well as sophisticated aerodynamic design measures such as Flow Acceleration Channels, the NF-A8 further improves the renowned quiet cooling performance of the award-winning NF-R8. The FLX version provides 2000/1650/1200rpm speed settings via the supplied Low-Noise Adaptors in order to provide full flexibility in fine-tuning the fan for maximum ventilation performance or near-silent operation. Its superb running smoothness, reference-class SSO2 bearing and Noctua's trusted premium quality make it an elite choice for the highest demands.

#### Succeeding the award-winning NF-R8

Noctua's NF-R8 fan has become a default-choice among PC enthusiasts looking for a premium quality quiet 80mm fan. Thanks to its thoroughgoing aerodynamic optimisations, the NF-A8 provides higher static pressure and an even better airflow/noise ratio than its much acclaimed predecessor.

#### Flow Acceleration Channels

The NF-A8 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.

#### 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-A8 remarkably quiet even at very close distance.

#### SSO2 Bearing

The NF-A8 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.

#### 3 speed settings for full flexibility

Providing 2000, 1650 and 1200 rpm speed settings via the supplied Low-Noise and Ultra-Low-Noise Adaptors, the NF-A8 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-A8 FLX features an MTBF rating of more than 150.000 hours and comes with a full 6 years manufacturer's warranty.

#### LOGISTICAL DATAS

Product Labeling	Noctua NF-A8 FLX
EAN-No.	471612331548-3
UPC-No.	84243101444-3
Dimensions (HxWxD)	210 x 150 x 34 mm
Weight	245 gr
Warranty	6 Years
MSPR	15.90 EUR
Packaging Unit	40 Pcs.
Dimensions / Unit (HxWxD)	390 x 370 x 360 mm
Weight / Unit	11.3 kg

#### SCOPE OF DELIVERY

NF-A8 FLX Premium Fan
Low-Noise Adaptor (L.N.A.)
Ultra-Low-Noise Adaptor (U.L.N.A.)
3:4 Pin Adaptor
30cm Extension Cable
4x Anti-Vibration Mounts
4x Fan Screws



#### SPECIFICATIONS

Size	80 x 80 x 25 mm		
Bearing	SSO2		
Blade Geometry	A-Series with Flow Acceleration Channels		
Max. Input Power/Operating Voltage	0.84 W/12V		
MTBF	> 150.000 h		

NF-A8 FLX	w/o adaptor	with L.N.A.	with U.L.N.A.
Max. Rotational Speed (+/-10%)	2000 RPM	1650 RPM	1200 RPM
Max. Airflow	50.4 m³/h	41.4 m³/h	28.9 m³/h
Max. Acoustical Noise	16.1 dB(A)	12.9 dB(A)	7.9 dB(A)
Max. Static Pressure	1.96 mmH2O	1.4 mmH2O	0.74 mmH2O

Designed in Austria, Noctua's premium cooling components are internationally renowned for their superb quietness, exceptional performance and thoroughgoing quality. Having received more than 3000 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.