

# NF-A12x15 PWM

# Noctua NF-A12x15 PWM Premium Fan



Featuring advanced aerodynamic design measures such as Flow Acceleration Channels and Noctua's AAO frame, the NF-A12x15 is a highly optimised, premium quality quiet fan in size 120x15mm. Its 15mm slim design makes the NF-A12x15 ideal for space-restricted applications such as low-profile CPU coolers or HTPC cases. The PWM version sports Noctua's custom-designed NE-FD1 IC for fully automatic speed control via 4-pin fan headers and comes with a Low-Noise Adaptor to reduce the maximum speed during PWM control from 1850 to 1400rpm. Its superb running smoothness, reference-class SS02 bearing and Noctua's trusted premium quality make it an elite choice for the highest demands.

#### 15mm slim design

Having a thickness of only 15mm, the NF-A12x15 PWM is much slimmer than standard 120x25mm fans. This makes it ideal for typical slim fan applications such as low-profile CPU coolers as well as for freeing up space by replacing standard 120x25mm fans on tower coolers, radiators or in PC cases.

#### Metal-reinforced motor hub

With many larger-diameter slim fan designs, the shorter axis and bearing lead to a reduced running stability and lifespan. The NF-A12x15 PWM uses a metal-reinforced motor hub, a measure typically found in high-speed industrial fans, in order to guarantee Noctua's signature stability and longevity.

#### 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.

#### Flow Acceleration Channels

The NF-A12x15 PWM 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.

#### 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.

#### Custom designed PWM IC with SCD

Supporting fully automatic PWM speed control, the NF-A12x15 PWM uses Noctua's 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 low speeds.

#### 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.

#### 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-year manufacturer's warranty

Noctua fans are renowned for their impeccable quality and outstanding longevity. Like all Noctua fans, the NF-A12x15 PWM features an MTTF of more than 150.000 hours rating and comes with a full 6-year manufacturer's warranty.

#### LOGISTICAL DATAS

Product Labeling  
Noctua NF-A12x15 PWM

EAN-No.  
901001810008-2

UPC-No.  
84150011008-6

Dimensions (HxWxD)  
210 x 150 x 34 mm

Weight  
296 gr

Warranty  
6 Years

MSPR  
19.95 USD

Packaging Unit  
36 Pcs.

Dimensions / Unit (HxWxD)  
395 x 380 x 380 mm

Weight / Unit  
12.1 kg

#### SCOPE OF DELIVERY

NF-A12x15 PWM Premium Fan

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

4-pin y-cable

30cm extension cable

NA-AV3 anti-vibration mounts

Fan screws



#### SPECIFICATIONS

Size	120 x 120 x 15 mm	
Bearing	SS02	
Connector	4-Pin	
Blade geometry	A-Series with Flow Acceleration Channels	
Max. input power / operating voltage	1.56W / 12V	
MTTF	> 150.000 h	

NF-A12x15 PWM	w/o adaptor	with L.N.A.
Max. rotational speed (+/-10%)	1850 RPM	1400 RPM
Max. airflow	94.2 m³/h	70.8 m³/h
Max. acoustical noise	23.9 dB(A)	16.8 dB(A)
Max. static pressure	1.53 mm H <sub>2</sub> O	0.90 mm H <sub>2</sub> O