



Noctua NF-A14 PWM Quiet Computer Cooling Fan 140mm - Sleeved

\$24.95

Product Images





Description

The fully featured NF-A14 PWM is a 140mm fan that is ideal for use on watercooling radiators or as an upgrade for 140mm case fans.

The NF-A14 is a premium quality quiet 140mm fan with a square frame that complies with Noctua's AAO (Advanced Acoustic Optimisation) standard. Its square shape and 140mm mounting holes (124.5mm spacing) make it ideal for use on watercooling radiators or as an upgrade for 140mm case fans. Featuring sophisticated aerodynamic design measures such as Flow Acceleration Channels, the NF-A14 further improves the renowned quiet cooling performance of the award-winning NF-P14. 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 1500rpm to 1200rpm. Its performance-oriented 1500rpm top speed and comprehensive speed control options make the NF-A14 PWM an elite choice for users who strive to strike a perfect balance between excellent cooling capacity and superb quietness of operation, be it on watercooling radiators, on heatsinks or in case ventilation.

Features

A successor to the award-winning NF-P14

Noctua's NF-P14 fan has become a default-choice among PC enthusiasts looking for a premium quality quiet 140mm fan. Thanks to its efficient aerodynamic optimisations, the NF-A14 provides higher static pressure and an even better airflow/noise ratio than its much acclaimed predecessor.

Square 140mm frame

The NF-A14's square 140mm frame with 140mm mounting holes (124.5mm spacing) makes it a premium grade replacement for common 140mm case fans and perfect for use on 140mm water cooling radiators,

where its square shape will ensure full coverage and best pressure performance.

Flow Acceleration Channels

The NF-A14 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 fans 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.

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.

SSO2 Bearing

The NF-A14 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.

Metal bearing shell

In order to guarantee the highest possible degree of manufacturing precision, minimum tolerance and excellent long-term stability, the NF-A14 sports a CNC milled bearing shell made entirely from brass.

Custom designed PWM IC with SCD

Supporting fully automatic PWM speed control, the NF-A14 PWM uses Noctua's novel, 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.

Low-Noise Adaptor

The NF-A14 PWM is supplied with a Low-Noise Adaptor (L.N.A.) that reduces the maximum fan speed from 1500 to 1200rpm. The L.N.A. can be used either to run the fan at a fixed speed of 1200rpm or to cap the maximum speed when using automatic PWM control.

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 a 4-pin y-cable allows to connect a second NF-A14 PWM fan to the same PWM fan header for automatic control.

6 years manufacturer's warranty

Noctua fans are renowned for their impeccable quality and outstanding longevity. Like all Noctua fans, the NF-A14 features an MTBF of more than 150,000 hours rating and comes with a full 6 years manufacturer's warranty.

Specifications

Size	140x140x25 mm
Connector	4-pin
Bearing	SSO2
Blade Geometry	A-Series with Flow Acceleration Channels
Frame Technology	AAO (Advanced Acoustic Optimisation)
Rotational Speed (+/- 10%)	1500 RPM
Rotational Speed with L.N.A. (+/- 10%)	1200 RPM
Airflow	82.5 CFM
Airflow with L.N.A.	68.0 CFM
Acoustical Noise	24.6 dB(A)
Acoustical Noise with L.N.A.	19.2 dB(A)
Static Pressure	2.08 mm H ₂ O
Static Pressure with L.N.A.	1.51 mm H ₂ O
Max. Input Power	1.56 W
Max. Input Current	0.13 A
Voltage	12 V
MTBF	> 150.000 h
Contents	Low-Noise Adaptor (L.N.A.), 4-Pin Y-Cable, 30cm Extension Cable, 4 Vibration-Compensators, 4 Fan Screws

Warranty

72 months

EAN barcode

4716123314981

Additional Information

Brand	Noctua
SKU	NF-A14-PWM
Weight	0.7000
Color	Brown
Fan Dimensions	140mm
Fan Width	25mm
Fan Connection	4-Pin PWM
Fan Voltage	12 VDC
Fan RPM	1500
Fan CFM	83
Fan Noise (dB)	24

