

NF-A15 PWM

Noctua NF-A15 PWM Premium Fan



LOGISTIC DATA

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|-------------------------------------|
| Product name |
| Noctua NF-A15 PWM |
| EAN |
| 4716123314806 |
| UPC |
| 842431014191 |
| Packaging dimensions (HxWxD) |
| 242x174x37 mm |
| Weight incl. packaging |
| 340 g |
| Warranty |
| 6 years |
| Packaging unit |
| 40 pcs |
| Packaging dimensions / unit (HxWxD) |
| 440x400x390 mm |
| Weight incl. packaging / unit |
| 15.20 kg |

SCOPE OF DELIVERY

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|----------------------------|
| NF-A15 PWM premium fan |
| Low-Noise Adaptor (L.N.A.) |
| 4-pin y-cable |
| 30cm extension cable |
| 4x anti-vibration mounts |
| 4x fan screws |

The NF-A15 is a premium quality quiet 140mm fan with a round frame that complies with Noctua's AAO (Advanced Acoustic Optimisation) standard. The NF-A15's frame features 120mm mounting holes (105mm spacing) and has been enlarged to 150mm width in order to provide superior performance on today's high-end CPU coolers. Featuring sophisticated aerodynamic design measures such as Flow Acceleration Channels, the NF-A15 further improves the renowned quiet cooling performance of the award-winning NF-P14. Noctua's custom designed PWM IC for fully automatic speed control and reference class SS02 bearings guarantee superb running smoothness and excellent long-term stability. Topped off with modular cabling, a Low-Noise Adaptor and 6 years manufacturer's warranty, the NF-A15 is a premium choice for the highest demands.

Round 140mm frame with 150mm width

The NF-A15 is tailor-made for use on today's high-end CPU coolers: While its 150mm width matches those of most high-end heatsinks, its 140mm height doesn't make it extend on top and thus ensures best case compatibility. The NF-A15's standard 120mm mounting holes (105mm spacing) also make it an ideal performance upgrade for 120mm case or CPU fans.

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.

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.

Custom designed PWM IC with SCD

Supporting fully automatic PWM speed control, the NF-A15 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-A15 PWM is supplied with a Low-Noise Adaptor (L.N.A.) that reduces the maximum fan speed from 1200 to 900rpm. The L.N.A. can be used either to run the fan at a fixed speed of 900rpm 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 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-A15 features an MTTF of more than 150,000 hours rating and comes with a full 6 years manufacturer's warranty.

SPECIFICATIONS

| | | |
|----------------------------|--|--|
| Dimensions | 140x150x25 mm | |
| Bearing | SS02 | |
| Blade geometry | A-Series with Flow Acceleration Channels | |
| Max. input power / voltage | 0.96 W / 12 V | |
| MTTF | > 150,000 h | |

| NF-A15 PWM | w/o adaptor | with L.N.A. |
|--------------------------------|-------------|-------------|
| Max. rotational speed (+/-10%) | 1200 RPM | 900 RPM |
| Max. airflow | 115.5 m³/h | 88.7 m³/h |
| Max. acoustical noise | 19.2 dB(A) | 13.8 dB(A) |
| Max. static pressure | 1.51 mmH₂O | 0.89 mmH₂O |



3 pin 12V fans (non-PWM)



- Yellow = RPM Speed Signal
- Red = +12V
- Black = Ground (GND)

4 pin 12V fans (PWM)



- Blue = PWM Signal (+5V)
- Green = RPM Speed Signal
- Yellow = +12V
- Black = Ground (GND)