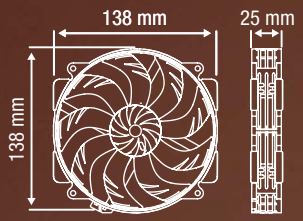
NF-A14x25r G2 PWM Sx2 PP

NEXT-GEN ROUND-FRAME 140x25mm FAN



LOGISTIC DATA

Product name
Noctua NF-A14x25r G2 PWM Sx2 PP

EAN
9010018100662

UPC
841501110665

Packaging dimensions (HxWxD)
33x369x148 mm

Weight incl. packaging
546 g

Warranty
6 years

Packaging unit
20 pcs

Packaging dimensions / unit (HxWxD)
342x388x373 mm

Weight incl. packaging / unit
11.80 kg

SCOPE OF DELIVERY

- NF-A14x25r G2 PWM PPA
- NF-A14x25r G2 PWM PPB
- 2x NA-RC16 Low-Noise Adaptor (L.N.A.)
- NA-YC1 4-pin PWM splitter cable
- 2x NA-EC1 30cm extension cable
- 8x NA-AV2 anti-vibration mounts
- 8x Fan screws

The NF-A14x25r G2 PWM Sx2-PP is a set of two NF-A14x25r G2 PWM round-frame 140mm fans for push-pull operation on heatsinks such as the NH-D15(S) or NH-U14S. When two fans operate in a push-pull configuration running at almost the same, constant speed, their acoustic interaction can lead to undesirable harmonic phenomena such as intermittent vibrations or periodic humming due to interference, which can be heard as beat frequencies. Therefore, the two NF-A14x25r G2 PWM fans contained in the Sx2-PP set are slightly offset in speed (+/- ~25rpm) in order to avoid such phenomena. This fine-tuning is made possible by the fans' novel etaPERF™ motor and its NE-FD6 driver IC that achieves extremely precise speed control and, thanks to its SupraTorque™ feature, can leverage extra torque headroom to keep the exact desired speed even when working against significant flow resistance such as on heatsinks. With one fan running ~25rpm slower (PPA) and one ~25rpm faster (PPB), the overall cooling performance can be kept the same while efficiently preventing intermittent vibrations or periodic humming. Since the perception of beat frequencies can vary depending on psychoacoustic preferences, users can easily further optimise acoustics by slowing the PPA fan down a little more through PWM control or the supplied Low-Noise-Adaptor, which will result in an even smoother sound signature due to the increased offset.

Push-pull set

Bundling two NF-A14x25r G2 PWM fans that are speed-offset by +/- 25rpm in order to avoid undesired acoustic interaction phenomena, the Sx2-PP set is the ideal choice for push-pull configurations on 140mm class coolers such as the NH-D15(S) or NH-U14S.

Next-generation performance

Noctua's NF-A15 is renowned as being among the best round-frame 140mm fans on the market and has received more than 100 awards and recommendations from the international press. With its further improved efficiency and novel, state-of-the-art engineering, the NF-A14x25r G2 represents another step up in performance and manufacturing.

Highly optimised P/Q curve for all applications

The NF-A14x25 G2's sophisticated aerodynamic design allows for a pressure to airflow (P/Q) curve that is extremely strong in the critical mid-section. This means that the NF-A14x25 G2 is a true jack-of-all-trades with excellent performance in both static pressure and airflow demanding applications.

Excellent on-application acoustics

While many fans produce unpleasant, high-pitched noises when installed in typical applications such as on heatsinks or radiators, the NF-A14x25 G2 has been carefully fine-tuned for optimal on-application acoustics. It produces a smooth, pleasant frequency profile and surprisingly low sound pressure levels (SPL) when working against back pressure.

Winglets

Winglets can help to reduce tip vortices that are caused by the pressure differential between the suction and the pressure side of fan blades but bear the risk of reducing efficiency due to extra fluid displacement in high velocity regions. The NF-A14x25 G2's small winglets have been carefully fine-tuned to provide consistent efficiency gains working in tandem with its Progressive-Bend blade geometry, Flow Acceleration Channels and AAO frame.

6-year manufacturer's warranty

Noctua fans are renowned for their impeccable quality and outstanding longevity. Like all Noctua fans, the NF-A14x25 G2 features an MTTF of more than 150,000 hours rating and comes with a full 6-year manufacturer's warranty.

NF-A14x25r G2 PWM FAN SPECIFICATIONS

Dimensions	140x140x25 mm
Connector	4-pin PWM
Bearing	SSO2
Blade geometry	Progressive-Bend impeller
Frame technology	AAO (Advanced Acoustic Optimisation)
Max. input power	2.28 W
Voltage	12 V
MTTF	> 150,000 h

NF-A14x25r G2 PWM	without adaptor	with L.N.A.
Rotational speed (+/–10%)	1500 RPM	1250 RPM
Airflow (m³/h)	155.6 m³/h	127.1 m³/h
Acoustical noise dB(A)	24.8 dB(A)	19.7 dB(A)
Static pressure (mm$H_2$0)	2.56 mm$H_2$0	1.3 mm$H_2$0

noctua DESIGNED IN AUSTRIA

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 chosen by more than a hundred thousand satisfied customers around the globe.

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PRODUCED ACCORDING TO ISO9001 & ISO14001

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