

# NF-F12 5V PWM

# Noctua NF-F12 5V PWM Premium Fan



The NF-F12 5V PWM is a dedicated 5V version of Noctua's award-winning, premium-quality NF-F12 120mm fan. Featuring an AAO (Advanced Acoustic Optimisation) standard frame and sophisticated aerodynamic design measures such as Flow Acceleration Channels, the NF-F12 5V PWM is renowned for its superior performance and outstanding quietness of operation. Featuring an AAO (Advanced Acoustic Optimisation) standard frame and sophisticated aerodynamic design measures such as the FocusedFlow™ system, the NF-F12 is renowned for its superior performance and outstanding quietness of operation. Topped off with the included USB power adaptor cable, OmniJoin™ adaptor set and 6-year manufacturer's warranty, the NF-F12 5V PWM is a premium choice for demanding 5V applications.

### Award-winning NF-F12 design

Having received more than 100 awards and recommendations from the international press, Noctua's NF-F12 5V PWM has become a proven premium choice for 120mm cooling needs. Its renowned efficiency has convinced tens of thousands of customers all over the world.

### 5V PWM version

5V PWM fans are used in various devices and applications. With the included USB power adaptor cable and OmniJoin™ adaptor set, the NF-F12 5V PWM is a proven premium solution that gives you full flexibility both for replacing existing 5V PWM fans and for new, custom applications that require PWM speed control.

### Focused Flow™ frame

Designed for pressure demanding applications such as heatsinks and radiators, the Focused Flow™ frame features eleven stator guide vanes that straighten, channel and focus the airflow, which allows the NF-F12 5V PWM to rival the performance of conventional fans running at much faster speeds.

### Heptaperf™

Custom-designed for the new Focused Flow™ frame and to work in tandem with the eleven stator guide vanes, the NF-F12 5V PWM's seven-blade Heptaperf™ impeller has been carefully optimised to achieve a perfect balance between power and quietness.

### OmniJoin Adaptor Set

Many devices featuring 5V fans use proprietary fan headers, so the NF-F12 5V PWM comes with Noctua's OmniJoin adaptor set. Just cut the original fan's cable, fix it to the adaptor using the supplied 3M Scotchlok™ connectors and you can plug the NF-F12 5V PWM to proprietary fan headers!

### USB power adaptor cable

The fan includes a USB power adaptor cable that allows it to run on power banks, devices with USB host ports or USB power supplies such as those used for smartphones, giving you near end-less possibilities for using the fan in your home, in your car or wherever a need for cooling occurs!

### 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.

### Varying Angular Distance and Vortex Control Notches

The NF-F12 5V PWM's stator guide vanes are set out in Varying Angular Distance and feature Vortex Control Notches. Both measures help to spread the noise emission over a broader frequency spectrum and thus make the fan's sound pattern more agreeable to the human ear.

### Polarity protection

As many devices using 5V fans feature proprietary connectors, and documentation of the pin alignment may not be available, the fan features an integrated diode for polarity protection. This way, you're on the safe side if you accidentally connect it with reverse polarity.

### 6-year manufacturer's warranty

Noctua fans are renowned for their impeccable quality and outstanding longevity. Like all Noctua fans, the NF-F12 5V PWM features an MTTF of more than 150.000 hours rating and comes with a full 6-year manufacturer's warranty.

*Being a 5V fan, the NF-F12 5V PWM cannot be run at 12V and will be damaged when used with typical 12V power sources such as PC motherboard fan headers.*

## LOGISTICAL DATAS

Product Labeling  
Noctua NF-F12 5V PWM

EAN-No.  
9010018100273

UPC-No.  
841501110276

Dimensions (HxWxD)  
210 x 150 x 34 mm

Weight  
330 gr

Warranty  
6 Years

MSPR  
19.95 USD

Packaging Unit  
36 Pcs.

Dimensions / Unit (HxWxD)  
380 x 350 x 360 mm

Weight / Unit  
13.1 kg

## SCOPE OF DELIVERY

NF-F12 5V PWM premium fan

NA-AV1 anti-vibration mounts

NA-EC1 30cm extension cable

NA-AC7 USB power adaptor cable

NA-IC2 OmniJoin adaptor cable

NM-SFS1 fan screws



## SPECIFICATIONS

Size	120 x 120 x 25 mm
Connector	4-Pin
Bearing	SS02
Blade geometry	Heptaperf™
Frame technology	Focused Flow™
Max. input power / operating voltage	0.75W / 5V
MTTF	> 150.000 h

NF-F12 5V PWM	w/o adaptor
Max. rotational speed (+/-10%)	1500 RPM
Max. airflow	93.4 m³/h
Max. acoustical noise	22.4 dB(A)
Max. static pressure	2.61 mm H <sub>2</sub> O