

# 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.

### 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 cable 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 endless 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.

### 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.*

### SPECIFICATIONS

|                                |                         |
|--------------------------------|-------------------------|
| Dimensions                     | 120x120x25 mm           |
| Connector                      | 4-pin                   |
| Bearing                        | SS02                    |
| Blade geometry                 | Heptaperf™              |
| Frame technology               | Focused Flow™           |
| Max. input power / voltage     | 0.75 W / 5 V            |
| 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 mmH <sub>2</sub> O |

### LOGISTIC DATA

|                                     |                      |
|-------------------------------------|----------------------|
| Product name                        | Noctua NF-F12 5V PWM |
| EAN                                 | 9010018100273        |
| UPC                                 | 841501110276         |
| Packaging dimensions (HxWxD)        | 210x150x34 mm        |
| Weight incl. packaging              | 330 g                |
| Warranty                            | 6 years              |
| Packaging unit                      | 36 pcs               |
| Packaging dimensions / unit (HxWxD) | 380x350x360 mm       |
| Weight incl. packaging / unit       | 13.10 kg             |

### SCOPE OF DELIVERY

|                           |
|---------------------------|
| NF-F12 5V PWM premium fan |
| 4x anti-vibration mounts  |
| 30cm extension cable      |
| USB power adaptor cable   |
| OmniJoin adaptor cable    |
| 4x fan screws             |

