



## NOCTUA NF-F12 industrialPPC-24V-2000 IP67 PWM

120x120x25mm Fan

industrialPPC

Conceived for industrial heavy duty applications that require enhanced cooling performance and advanced ingress protection, the NF-F12 industrialPPC (Protected Performance Cooling) is a ruggedised high-speed version of the award-winning retail model. The 24V variant uses a dedicated wide input range version of Noctua's NE-FD2 motor driver IC in order to support 24V-based industrial applications. Thanks to the outstanding aerodynamic efficiency of the NF-F12 design and the use of a novel three-phase motor, the industrialPPC version provides superior airflow and pressure capacity while keeping noise levels and power consumption moderate as against comparable high-speed fans. While its fibre-glass reinforced polyamide construction and certified water and dust protection make the NF-F12 industrialPPC suitable for operation in challenging environments, the renowned SSO2 bearing technology guarantees an MTBF of over 150.000hrs. Topped off with Noctua's trusted reliability and 6 years manufacturer's warranty, the NF-F12 industrialPPC is an ideal choice for highly demanding applications that require superior flow rates and ultimate dependability.

### 24V version

The industrialPPC 24V models use a dedicated wide input range version of Noctua's NE-FD2 three-phase motor driver IC. Supporting operating voltages from 6 to 30V, these models are ideal for 24V-based industrial applications and voltage-based speed control.

### Lower speed and noise levels in 12V PC environments

While the industrialPPC 24V model has been designed with 24V industrial applications in mind, it runs at a maximum speed of around 2000 rpm in 12V PC environments and can be slowed down further via PWM, thus combining industrialPPC features and design with Noctua's signature quietness.

Size	120 x 120 x 25 mm
Bearing	SSO2
Blade Geometry	A-Series with Flow Acceleration Channels
Frame Technology	AAO (Advanced Acoustic Optimisation)
IP Rating / Connector	67 / 4-pin PWM
Input Power / Operating Voltage	1.68 W / 24 V
MTBF	> 150.000 h

Max. Rotational Speed 12V (+/- 10%)	2000 RPM
Max. Rotational Speed 24V (+/- 10%)	1050 RPM
Max. Airflow	121.8 m <sup>3</sup> /h
Max. Acoustical Noise	29.7 dB(A)
Max. Static Pressure	3.94 mmH <sub>2</sub> O

Product Name	Noctua NF-F12 industrialPCC-24V-2000 IP67 PWM
EAN-No.	4716123315704
UPC-No.	842431012579
Packaging Dimensions (HxWxD)	180 x 170 x 34 mm
Weight incl. Packaging	270 gr
Warranty	6 Years
MSPR	29.90 EUR
Packaging Unit	20 Pcs.
Packaging Dimensions / Unit (HxWxD)	380 x 360 x 200 mm
Weight incl. Packaging / Unit	6.3 kg
Scope of Delivery	Fan, 4 Fan Screws

