

D10F-24PM Nidec 24VDC 97x97x33mm 4-Wire Blower Fan Datasheet



Brand: Nidec

SKU: [623715203521](#)

Category: Axial & Centrifugal Fans

Price: **\$15.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/d10f-24pm-nidec-24vdc-97x97x33mm-4-wire-blower-fan>

Product Description

The Nidec D10F-24PM is a precision-engineered Centrifugal Blower designed for high-static pressure applications within the renowned GAMMA30 series. Utilizing advanced DC motor technology and a robust bearing architecture, this unit ensures optimal rotational stability and minimized thermal impedance under continuous load. The aerodynamic volute design maximizes airflow efficiency while maintaining structural rigidity, making it suitable for restricted airflow environments. Engineered for reliability, the D10F-24PM integrates sophisticated commutation electronics to deliver consistent performance, effectively managing heat dissipation in critical industrial electronic assemblies and ensuring long-term operational integrity.

Model Number: D10F-24PM

Brand: Nidec

Series: GAMMA 30

Product Type: Centrifugal Blower / Turbine Fan

Rated Voltage: 24VDC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 0.25 A

Power: 6.0 W

Rated Speed: 3600 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 28.6 CFM (48.6 m³/h / 0.81 m³/min)
Max. Static Pressure: 18.5 mmH₂O (181.4 Pa / 0.73 inH₂O)
Dimensions: 97mm x 97mm x 33mm
Weight: 170 g
Life Expectancy: 70,000 Hours @ 40°C
Termination: 4-Wire (Lead Wires)
Wire Function: Red (+), Black (-), Yellow (Tach/FG), Blue (PWM)
Housing Material: PBT Plastic (UL94V-0)
Impeller Material: PBT Plastic (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Noise Level: 45.0 dB(A)
Insulation Class: Class A
Protection: Locked Rotor Protection, Reverse Polarity Protection
Mounting Orientation: Any

This centrifugal blower is specifically calibrated for applications requiring concentrated airflow and high static pressure, such as server rack cooling modules, telecommunications equipment, and industrial automation systems. The D10F-24PM excels in forcing air through dense heatsinks and restricted ducts found in CNC machinery and 3D printing cooling solutions. By maintaining consistent pressure levels, the D10F-24PM ensures critical components remain within safe thermal operating limits, preventing system throttling in medical devices and power supply units.

Supplemental Images

