

T92T12MUA7-57 Nidec 12VDC 90x90x25mm Axial Fan Datasheet



Brand: Nidec

SKU: [828835541356](#)

Category: Axial & Centrifugal Fans

Price: **\$23.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page: <https://www.equipspares.com/product/t92t12mua7-57-nidec-12vdc-90x90x25mm-axial-fan>

Product Description

Nidec T92T12MUA7-57 is a 12VDC 90x90x25mm Axial Fan optimized for high-efficiency thermal management in noise-sensitive computing environments. This unit features advanced magnetic levitation bearing architecture, which significantly reduces mechanical friction and acoustic output compared to traditional ball or sleeve bearings. The aerodynamic impeller design is engineered to minimize thermal impedance while maintaining structural rigidity during high-velocity operation. Utilizing a 4-pin PWM interface, the fan operates within a dynamic range of 900 to 2850 RPM, delivering up to 60.7 CFM of airflow and 25 Pa of static pressure. Drawing only 0.25A, it provides an ideal balance of low power consumption and high-density cooling performance for modern chassis and heatsink applications.

Model Number: T92T12MUA7-57

Brand: Nidec (Nidec Corporation)

Product Type: Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.25 A

Power: 3.0 W

Rated Speed: 900 - 2850 RPM

Bearing Type: Magnetic Levitation Bearing

Max. Air Flow: 60.7 CFM (103.1 m³/h / 1.72 m³/min)

Max. Static Pressure: 2.55 mmH₂O (25 Pa / 0.10 inH₂O)

Dimensions: 90 x 90 x 25 mm

Weight: 55 g

Noise Level: 12 - 28 dB(A)

Speed Control: PWM (Pulse Width Modulation)

Monitoring Output: Tachometer / Speed Signal

Termination: 4-Pin Standard Motherboard Connector

Wire Length: 120 mm

Housing Material: UL94V-0 Plastic

Blade Material: UL94V-0 Plastic

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

T92T12MUA7-57 Applications

1. Silent Workstation Chassis: The magnetic levitation bearing eliminates the mechanical grinding noise typical of ball bearings, making it the ideal replacement fan for professional audio-visual editing suites.
2. CPU Heatsink Retrofitting: High static pressure efficiency at 2850 RPM allows for effective heat dissipation through dense fin arrays in mid-tower air coolers.
3. Power Supply Unit (PSU) Modification: The compact 90mm profile and low 12dB(A) floor make it suitable for upgrading internal PSU cooling to reduce overall system resonance.
4. 2U Server Enclosures: Provides reliable, PWM-controlled airflow for high-density rackmount equipment where variable thermal loads require precise RPM modulation.