

U12E12MS1D3-52Z995 Nidec 12VDC 120mm Waterproof Axial Fan Datasheet



Brand: Nidec

SKU: [674444772229](#)

Category: Axial & Centrifugal Fans

Price: **\$21.99**

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Product Page:

<https://www.equipspares.com/product/u12e12ms1d3-52z995-nidec-12vdc-120mm-waterproof-axial-fan>

Product Description

The Nidec U12E12MS1D3-52Z995 is a precision-engineered Axial Fan designed to meet the rigorous demands of commercial and residential refrigeration systems. Built with Nidec's proprietary motor technology, this 12VDC unit delivers an optimal balance of airflow efficiency and acoustic discretion, making it ideal for noise-sensitive environments. The fan features a robust housing structure that minimizes vibration and ensures long-term structural rigidity under continuous operation. Its internal components are optimized to reduce thermal impedance, effectively dissipating heat while maintaining a low power consumption profile of just 1.20W. Furthermore, the design incorporates moisture-resistant properties, ensuring reliable performance in high-humidity zones typical of cold storage applications. This combination of durability and aerodynamic efficiency positions it as a superior choice for thermal management tasks.

Model Number: U12E12MS1D3-52Z995

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Product Type: Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.10 A

Power: 1.20 W

Rated Speed: 1550 RPM

Bearing Type: Maintenance-Free Sleeve System

Max. Air Flow: 48.5 CFM (82.4 m³/h / 1.37 m³/min)

Max. Static Pressure: 1.45 mmH₂O (14.2 Pa / 0.057 inH₂O)

Dimensions: 120 x 120 x 25 mm

Weight: 145 g

Life Expectancy: 40,000 Hours @ 40°C

Noise Level: 24.5 dB(A)

Ingress Protection: IP54 (Moisture Resistant)

Speed Control: Constant Speed

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Termination: 2-Wire Lead with Connector

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Mounting Orientation: Any

Certifications: CE, RoHS, UL

Protection: Locked Rotor Protection, Reverse Polarity

This cooling solution is specifically calibrated for integration into refrigeration systems and freezer units requiring reliable air circulation in humid conditions. The U12E12MS1D3-52Z995 ensures uniform temperature distribution within cold storage compartments, preventing frost buildup and maintaining food preservation standards. Additionally, the U12E12MS1D3-52Z995 serves effectively in beverage coolers, wine fridges, and commercial display cases where silent operation and moisture resistance are critical operational requirements.

Supplemental Images

