

GW12E12MS1AZ-52Z32 Nidec 12VDC 120mm Refrigerator Axial Fan Datasheet



Brand: Nidec

SKU: [769019885653](#)

Category: Axial & Centrifugal Fans

Price: **\$8.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/gw12e12ms1az-52z32-nidec-12vdc-120mm-refrigerator-axial-fan>

Product Description

The Nidec GW12E12MS1AZ-52Z32 is an Axial Fan engineered for precision thermal management in refrigeration systems. Utilizing advanced brushless DC motor technology, this unit minimizes thermal impedance while maintaining structural rigidity under continuous operation. The aerodynamic impeller design is optimized for low-noise performance and consistent airflow delivery. Featuring a robust bearing architecture, the GW12E12MS1AZ-52Z32 ensures long-term reliability in demanding environments. Its construction utilizes flame-retardant materials to meet strict safety standards, providing a durable solution for critical cooling applications where energy efficiency and mechanical stability are paramount for system longevity.

Model Number: GW12E12MS1AZ-52Z32

Brand: Nidec

Product Type: Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8VDC

Rated Current: 0.33A

Power: 3.96W

Rated Speed: 2400RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 82.4CFM (140.0m³/h / 2.33m³/min)

Max. Static Pressure: 4.2mmH₂O (41.2Pa / 0.16inH₂O)

Dimensions: 120mmx120mmx25mm

Weight: 180g

Life Expectancy: 70,000 Hours at 40°C

Housing Material: PBT Plastic (UL94V-0)

Blade Material: PBT Plastic (UL94V-0)

Termination: 3-Wire Lead

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

Insulation Class: Class A

Certifications: UL, TUV, CE, RoHS

The GW12E12MS1AZ-52Z32 is primarily designed for integration within Haier refrigeration units to facilitate efficient heat dissipation and air circulation in freezer compartments. Beyond domestic appliances, the GW12E12MS1AZ-52Z32 is suitable for industrial cooling cabinets, medical storage systems, and telecommunications enclosures requiring stable 12VDC thermal regulation. Its compact form factor allows for seamless installation in space-constrained environments where consistent airflow is critical for maintaining internal temperature gradients.

Supplemental Images

