

# GW10C12MS1C9-57ZA9 Nidec 12VDC Refrigerator Blower Fan Datasheet



**Brand:** Nidec

**SKU:** [945486649404](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$16.99**

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Product Page:

<https://www.equipspares.com/product/gw10c12ms1c9-57za9-nidec-12vdc-refrigerator-blower-fan>

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## Product Description

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The Nidec GW10C12MS1C9-57ZA9 is a specialized centrifugal blower fan engineered for precision thermal management in refrigeration appliances and compact cooling systems. Utilizing advanced DC brushless motor technology, this unit ensures consistent airflow delivery with optimized energy efficiency, drawing minimal current while maintaining effective circulation. The aerodynamic scroll housing is designed to minimize turbulence and acoustic noise while generating the high static pressure required for evaporator coil circulation. Constructed with durable, moisture-resistant materials to withstand cold storage environments, the fan features a robust bearing architecture that reduces friction and thermal impedance, ensuring long-term operational stability and structural rigidity within the cooling assembly.

Model Number: GW10C12MS1C9-57ZA9

Brand: Nidec

Product Type: Centrifugal Blower Fan

Rated Voltage: 12V DC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 0.12 A

Power Consumption: 1.44 W

Motor Type: DC Brushless

Bearing Type: Precision Sleeve Bearing

Max. Air Flow: 22.5 CFM (Estimated)

Max. Static Pressure: High Static Pressure Profile

Speed Control: Tachometer Output (Speed Sensor)

Termination: 3-Wire Lead with Connector

Housing Material: Reinforced Plastic (UL94V-0)

Blade Material: Reinforced Plastic

Operating Temperature: -10°C to +60°C

Application Environment: High Humidity / Refrigeration

Mounting Orientation: Vertical / Horizontal

Ingress Protection: Moisture Resistant Design

Weight: Approx. 0.15 kg

Life Expectancy: 30,000 Hours at 40°C

The GW10C12MS1C9-57ZA9 is primarily deployed in residential and commercial refrigeration systems, specifically functioning as an evaporator fan to circulate cold air throughout the compartment and prevent frost buildup. This component is essential for maintaining uniform temperatures in frost-free freezers, wine coolers, and smart refrigerators. Beyond appliance repair, the GW10C12MS1C9-57ZA9 is suitable for custom cooling projects requiring a compact blower with reliable moisture resistance, such as small-scale dehumidifiers, beverage coolers, or specialized electronic cooling cabinets where directed airflow is critical for system integrity.

## Supplemental Images

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