R80H12BHPA9-07Z76 Nidec 12VDC 80x80x80mm Axial Fan Datasheet

Brand: Nidec

SKU: 1035839684183

Category: Axial & Centrifugal Fans

Price: **$22.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/r80h12bhpa9-07z76-nidec-12vdc-80x80x80mm-axial-fan

Product Description

Nidec R80H12BHPA9-07Z76 is a 12VDC 80x80x80mm Axial Fan optimized for high-density thermal management in environments with extreme system impedance. This UltraFlo series component utilizes a dual-motor counter-rotating or high-stack architecture to achieve industrial-grade airflow, featuring a precision ball bearing system for extended service life and structural rigidity. The motor technology is engineered for high-amperage efficiency, drawing 9.20A to maintain peak RPM under significant backpressure. By minimizing thermal impedance through optimized blade geometry, this fan ensures critical component stability in mission-critical hardware. It delivers exceptional performance metrics, specifically designed to handle the rigorous cooling requirements of modern high-wattage processing units.

Model Number: R80H12BHPA9-07Z76
Brand: Nidec
Product Type: Axial Fan
Rated Voltage: 12 VDC
Voltage Range: 10.2 - 13.8 VDC
Rated Current: 9.20 A
Power: 110.4 W
Rated Speed: 15500 RPM
Bearing Type: Dual Ball Bearing

Max. Air Flow: 145.0 CFM (246.3 m^3/h)
Max. Static Pressure: 65.0 mmH_2O (637.4 Pa)
Dimensions: 80 x 80 x 80 mm
Weight: 450 g
Life Expectancy: 70,000 hours at 40°C
Speed Control: PWM Control / Tachometer Output
Termination: 8-wire interface
Housing Material: UL94V-0 Plastic
Blade Material: UL94V-0 Plastic
Operating Temperature: -10 to +70 °C
Protection Features: Locked Rotor Protection, Reverse Polarity Protection

R80H12BHPA9-07Z76 Applications

1. 2U/3U High-Density Server Nodes: The 80mm depth and 9.20A power profile provide the necessary static pressure to overcome the high impedance of tightly packed drive arrays and heatsinks, serving as a high-performance replacement fan for enterprise hardware.
2. Industrial VFD and Power Inverters: Engineered for continuous operation in ruggedized environments where high-velocity cooling is required to prevent thermal throttling in power conversion electronics.
3. GPU Mining Rigs and AI Compute Clusters: Optimized for localized heat extraction in multi-card configurations where maintaining low delta-T is critical for hardware longevity.

Supplemental Images