

BAPA0909R5HY008 AVC 5VDC 90mm Hydraulic Blower Fan Datasheet



Brand: AVC

SKU: 1031017128650

Category: Axial & Centrifugal Fans

Price: \$24.99

E-mail: sales@equipspares.com

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

Product Page:

<https://www.equipspares.com/product/bapa0909r5hy008-avc-5vdc-90mm-hydraulic-blower-fan>

Product Description

The AVC BAPA0909R5HY008 is a 5VDC 90mm Blower optimized for high-density thermal management in mobile computing platforms. Engineered with advanced hydraulic bearing architecture, this unit minimizes friction and acoustic output while maintaining structural rigidity under high thermal loads. The DC brushless motor operates at 0.50A, delivering precise airflow to reduce thermal impedance across heat pipe assemblies. Its aerodynamic impeller design is specifically tuned to overcome the high static pressure environments found in slim chassis designs. This replacement fan ensures stable 5VDC operation, providing a reliable cooling solution for Lenovo Legion Y7000 and 7000P 2020 series laptops.

Model Number: BAPA0909R5HY008

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Product Type: Blower Fan

Rated Voltage: 5VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.50A

Power: 2.5W

Rated Speed: 4500 RPM

Bearing Type: Hydraulic Bearing

Max. Air Flow: 8.5 CFM (14.4 m³/h / 0.24 m³/min)

Max. Static Pressure: 12.0 mmH₂O (117.6 Pa / 0.47 inH₂O)

Dimensions: 90mm x 90mm x 10mm

Weight: 45g

Life Expectancy: 40,000 hours at 40°C

Housing Material: UL94V-0 Plastic

Blade Material: UL94V-0 Plastic

Termination: 4-Pin Connector

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

BAPA0909R5HY008 Applications

1. Lenovo Legion Y7000/7000P 2020 Series: Direct replacement fan for CPU cooling modules, engineered to match the specific impedance curves of the OEM heat sink.
2. High-Performance Gaming Laptops: Ideal for slim-profile thermal solutions where high static pressure is required to exhaust heat through dense fin stacks.

Supplemental Images

