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EBM PAPST R2E180-AT06-15 Motorized Impeller Blower User Manual

Model: R2E180-AT06-15 | Brand: ebm-papst

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the EBM PAPST R2E180-AT06-15 Motorized Impeller Blower. Please read this manual thoroughly before using the product and retain it for future reference.

PRODUCT OVERVIEW

The EBM PAPST R2E180-AT06-15 is a high-performance motorized impeller blower designed for various industrial and scientific applications requiring efficient air movement. It features a compact design and operates on a 230VAC power supply, delivering a flow rate of 432.6 CFM (735 M³/H).



Figure 1: Top-down view of the EBM PAPST R2E180-AT06-15 motorized impeller blower, showing the metallic impeller with numerous small perforations and the central motor housing with connected wiring. The black plastic fan blades are visible below the impeller.

SPECIFICATIONS

Feature	Detail
Model Number	R2E180-AT06-15
Manufacturer	EBM PAPST
Supply Voltage	230 VAC
Current Type	AC
Wattage	180 watts
External Depth	95 MM
Fan Frame Size	180 MM
Flow Rate (Imperial)	432.6 CFM
Flow Rate (Metric)	735 M ³ /H
Maximum Rotational Speed	1800 RPM
Material	Copper (for certain components)

Package Dimensions	8 x 7 x 7 inches
Item Weight	6 Pounds

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of the blower. It is recommended that installation be performed by qualified personnel.

- Safety First:** Ensure the power supply is disconnected before beginning any installation work.
- Mounting Location:** Select a stable, vibration-free mounting surface capable of supporting the blower's weight. Ensure adequate clearance for airflow and maintenance.
- Mounting:** Secure the blower using appropriate fasteners through the designated mounting points. Avoid over-tightening, which could deform the housing.
- Electrical Connection:** Connect the blower to a 230VAC power supply according to local electrical codes and the wiring diagram provided with the product. Ensure all connections are secure and insulated. The blower typically requires a live, neutral, and ground connection.
- Airflow Direction:** Verify the intended airflow direction matches the application requirements. Impeller blowers typically draw air from the center and expel it radially.
- Pre-Operation Check:** Before applying power, visually inspect all connections and ensure no foreign objects are obstructing the impeller.

OPERATING INSTRUCTIONS

Once properly installed, the EBM PAPST R2E180-AT06-15 blower is designed for continuous operation within its specified parameters.

- Power On:** Apply the 230VAC power supply to the blower. The impeller should begin rotating smoothly.
- Monitor Performance:** Observe the blower during initial operation for any unusual noises, vibrations, or signs of overheating.
- Environmental Conditions:** Ensure the operating environment remains within the blower's specified temperature and humidity ranges to prevent damage and ensure optimal performance.
- Continuous Operation:** This blower is designed for continuous duty. Avoid frequent on/off cycling if not required by the application, as this can reduce motor lifespan.

MAINTENANCE

Regular maintenance helps ensure the long-term reliability and efficiency of your EBM PAPST blower.

- Power Disconnection:** Always disconnect power before performing any maintenance or cleaning.
- Cleaning:** Periodically inspect the impeller and housing for dust, dirt, or debris accumulation. Clean with a soft brush or compressed air. Avoid using liquids directly on electrical components.
- Visual Inspection:** Regularly check for any signs of wear, damage to wiring, or loose connections.
- Vibration Check:** Monitor for excessive vibration, which could indicate impeller imbalance or bearing wear.
- Bearing Lubrication:** This unit typically features sealed bearings that do not require lubrication. Refer to the manufacturer's specific guidelines if any lubrication is indicated.

TROUBLESHOOTING

This section outlines common issues and potential solutions. For problems not listed here, contact qualified service personnel.

Problem	Possible Cause	Solution
Blower does not start	No power supply; Incorrect wiring; Motor fault	Check power connection and circuit breaker; Verify wiring against diagram; Consult service personnel.
Excessive noise or vibration	Loose mounting; Impeller imbalance; Foreign object in housing; Worn bearings	Tighten mounting screws; Inspect impeller for damage/debris; Contact service personnel for bearing replacement.
Reduced airflow	Blocked inlet/outlet; Dirty impeller; Incorrect rotation direction	Clear obstructions; Clean impeller; Verify correct wiring for rotation.
Overheating	Insufficient ventilation; Motor overload; High ambient temperature	Ensure adequate airflow around blower; Check for obstructions; Verify operating conditions are within limits.

WARRANTY AND SUPPORT

Warranty terms for the EBM PAPST R2E180-AT06-15 blower are provided by the manufacturer, EBM PAPST. Please refer to the documentation included with your purchase or visit the official EBM PAPST website for detailed warranty information and support contacts.

For technical assistance or service inquiries, please contact your authorized EBM PAPST distributor or the manufacturer directly.