

UVENTS



Installation, Operation & Maintenance Manual

UVENTS Ventilation Systems

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1. SAFETY INFORMATION

- Read this manual carefully before installing or operating the fan.
- Installation and electrical connections must be carried out by qualified personnel.
- Disconnect electrical power before performing maintenance or inspection.
- Ensure proper grounding according to IP55 protection class requirements.
- Prevent foreign objects from entering the fan during operation.
- Do not operate the fan outside the specified operating limits.

2. GENERAL DESCRIPTION

UVS-AKM series are square industrial aspirators designed for wall or window installation in ventilation systems. The fan is equipped with an external motor and a concave six-blade impeller to provide efficient air extraction. The housing is manufactured from DKP sheet metal and the impeller is made of aluminum to ensure durability and corrosion resistance.

3. TECHNICAL SPECIFICATIONS

Airflow Range	2,000 to 8,000 m³/h
Static Pressure	100 to 250 Pa
Impeller	6-bladed concave type
Power Range	0.25 – 0.55 kW
Body Material	DKP Steel Sheet
Impeller Material	Aluminum
Protection / Insulation	IP55 / F class
Frequency	50 Hz
Operating Temperature	-20 to +50 °C

4. AREAS OF USAGE

- Industrial ventilation systems
- Factory ventilation
- Warehouse air extraction
- Workshops and production areas
- Agricultural buildings
- General wall or window exhaust ventilation systems

5. INSTALLATION

The fan is designed for wall or window installation. Ensure that the mounting surface is stable and capable of supporting the fan weight. Install the unit so that airflow direction corresponds with the exhaust direction. Electrical connections must be performed according to the motor nameplate and wiring diagram. Proper grounding must be ensured before operation.

6. OPERATION

Before starting the fan verify that the supply voltage and frequency correspond to the motor specifications. Ensure that the airflow path is unobstructed. During operation monitor the fan for abnormal vibration, noise or airflow reduction.

7. MAINTENANCE

Disconnect electrical power before performing maintenance. Inspect the fan blades and protective grille periodically for dust accumulation. Clean the impeller and housing when necessary. Check mounting bolts and electrical connections regularly.

8. TROUBLESHOOTING

Issue	Possible Cause	Solution
Fan not starting	No power / wrong wiring	Check supply; verify wiring per diagram
Abnormal noise	Foreign object or misalignment	Inspect impeller/duct; tighten mounts
Low airflow	Obstructed airflow path, contaminated impeller, incorrect installation	Inspect airflow path, clean impeller, verify installation

9. WARRANTY

Warranty period is 2 years from delivery against manufacturing defects. Improper installation, user errors, and electrical faults are excluded. Repair time is up to 30 business days after notification.

10. APPENDIX – ELECTRICAL DIAGRAM

*Before making electrical connections, cut off the power and have all electrical work done by authorized personnel.

