

UVENTS



Installation, Operation & Maintenance Manual

UVENTS Ventilation Systems

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1. SAFETY INFORMATION

- Read and retain this manual before operating the fan.
- Use only for ventilation applications within specified limits.
- Do not use in explosive or highly corrosive atmospheres unless certified for such use.
- All electrical work must be performed by qualified personnel.
- Disconnect power before installation or maintenance.
- Ensure proper grounding and electrical protection according to IP55 standards.

2. GENERAL DESCRIPTION

UVS-KO-A is an axial fan series equipped with airfoil type aluminum blades. The adjustable blade angle design ensures efficient airflow performance. The fan is suitable for industrial and commercial ventilation applications and can be installed in duct systems or wall openings. The body is manufactured from DKP steel sheet and the impeller is made of aluminum. Three-phase motors are suitable for operation with frequency inverters.

3. TECHNICAL SPECIFICATIONS

Airflow Range	3,500 to 100,000 m³/h
Static Pressure	250 to 1800 Pa
Impeller	Airfoil type aluminum blades
Drive Options	Direct drive
Body & Impeller Material	DKP Steel Sheet
Motor Efficiency Class	IE2 / IE3
Protection / Insulation	IP55 / F Class
Frequency	50 Hz
Operating Temperature	-20 to +50 °C

4. AREAS OF USAGE

- Buildings
- Factories
- Hospitals
- Restaurants
- Car parks
- Industrial ventilation systems
- Outdoor applications

5. INSTALLATION

Install the fan according to airflow direction. The unit can be mounted in wall openings or duct systems. Ensure secure and rigid installation to prevent vibration. Confirm that sufficient clearance is provided around the impeller and motor for proper airflow and cooling. Electrical connections must be made according to the motor nameplate and wiring diagram. Proper grounding is mandatory.

6. OPERATION

Verify that supply voltage and frequency match the motor nameplate ($\pm 5\%$). Before full operation, check correct rotation direction (for three-phase models). If equipped with adjustable pitch blades, ensure blade angles are set correctly before operation. During operation, monitor for abnormal vibration, noise, or overheating.

7. MAINTENANCE

Disconnect power before any intervention. Periodically inspect and clean the impeller blades and protective grille to prevent dust accumulation. Check that blade pitch adjustment mechanisms remain secure. Ensure motor ventilation openings remain unobstructed. Bearings are maintenance-free under normal operating conditions. Avoid high-pressure cleaning and prevent motor contact with water.

8. TROUBLESHOOTING

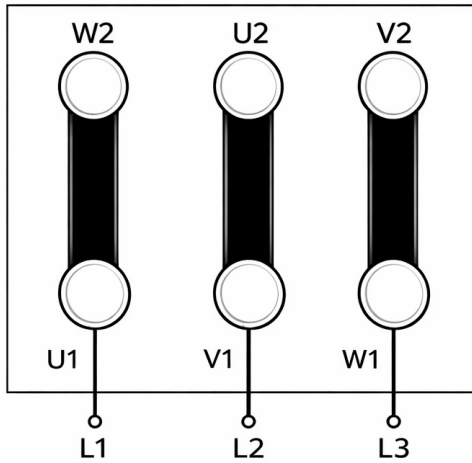
Issue	Possible Cause	Solution
Fan not starting	No power / wrong wiring	Check supply; verify wiring per diagram
Abnormal noise	Foreign object or misalignment	Inspect impeller/duct; tighten mounts
Low airflow	Incorrect rotation, obstruction, incorrect blade pitch	Verify rotation direction; remove obstruction; check blade angle

9. WARRANTY

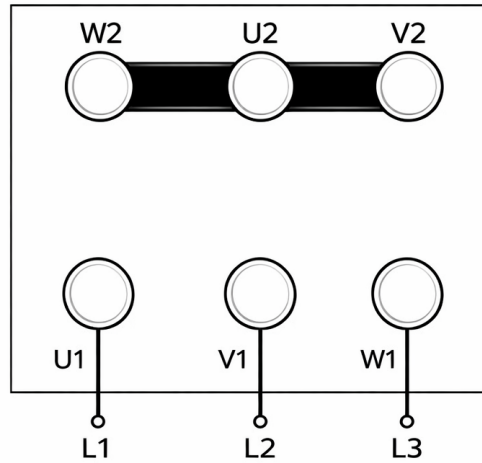
Warranty period is 2 years from delivery against manufacturing defects. Improper installation, user errors, and electrical faults are excluded. Repair time is up to 30 business days after notification.

10. APPENDIX – ELECTRICAL DIAGRAM

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



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