

UVENTS



Installation, Operation & Maintenance Manual

UVENTS Ventilation Systems

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1. SAFETY INFORMATION

- Read this manual carefully before installation and operation.
- The fan is designed for ventilation and air extraction applications.
- Installation and electrical connections must be performed by qualified personnel.
- Disconnect electrical power before maintenance or inspection.
- Ensure proper grounding according to IP55 protection requirements.
- Do not operate the fan in explosive or highly corrosive environments unless specially designed for such conditions.

2. GENERAL DESCRIPTION

UVS-A is an axial fan equipped with aluminum blades designed for ventilation and air extraction systems. The fan can be used for exhausting smoke, exhaust gases and dust from industrial or commercial environments. The housing is manufactured from DKP steel sheet while the impeller is made of aluminum. The fan can be supplied with direct-drive or belt-driven motor configurations depending on application requirements.

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 Material	DKP Steel Sheet
Impeller Material	Aluminium
Protection / Insulation	IP55 / F Class
Frequency	50 Hz
Operating Temperature	-20 to +50 °C
Motor Efficiency Class	IE2 / IE3

4. AREAS OF USAGE

- Ventilation systems
- Industrial facilities
- Smoke extraction systems
- Exhaust gas discharge
- Dust removal systems
- General air circulation applications

5. INSTALLATION

Install the fan on a rigid wall, duct or supporting frame depending on the ventilation system design. Ensure correct airflow direction during installation. The mounting surface must be strong enough to support the fan weight. Electrical connections must be made according to the motor nameplate and wiring diagram. Ensure proper grounding before operation.

6. OPERATION

Before starting the fan verify that the supply voltage and frequency match the motor nameplate. For three-phase motors check the rotation direction before full operation. During operation observe the fan for abnormal vibration, noise or overheating.

7. MAINTENANCE

Disconnect the electrical supply before maintenance. Periodically inspect the impeller and fan housing for dust accumulation. Clean the blades and internal surfaces when necessary. Check mounting bolts and electrical connections regularly. Bearings should be inspected periodically according to operating conditions.

8. TROUBLESHOOTING

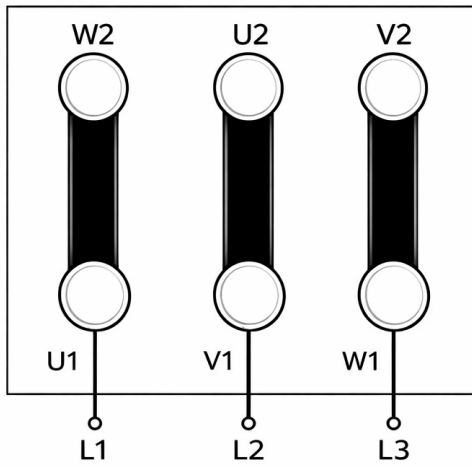
Issue	Possible Cause	Solution
Fan not starting	No power / wrong wiring	Check supply; verify wiring per diagram
Abnormal noise	Foreign object or misalignment	Inspect impeller/duct; tighten mounts
Low airflow	Obstruction, incorrect rotation direction, contaminated blades	Remove obstruction, check motor rotation, clean impeller

9. WARRANTY

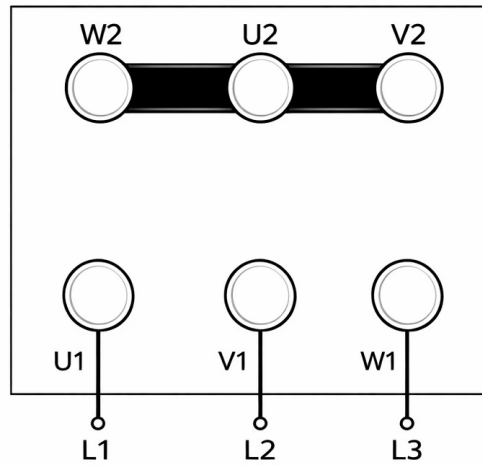
Warranty period is 2 years from delivery against manufacturing defects. Improper installation, user errors, and electrical faults are excluded. Repair time is up to 30 business days after notification.

10. APPENDIX – ELECTRICAL DIAGRAM

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



Δ Connection



Y Connection