

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 roof-mounted 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-C is an axial roof fan designed for effective air extraction from industrial facilities, roofs and chimney systems. The fan is equipped with an aluminium impeller and a direct drive motor. The body is manufactured from DKP steel sheet. The unit is suitable for applications requiring high airflow rates and reliable roof-mounted operation.

3. TECHNICAL SPECIFICATIONS

Airflow Range	3,500 to 100,000 m³/h
Static Pressure	250 to 1800 Pa
Impeller	Aluminum
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

- Industrial plants
- Roof-mounted ventilation systems
- Chimneys requiring effective aspiration
- Applications requiring high airflow rate
- Industrial kitchens and facilities

5. INSTALLATION

The unit is designed for roof-mounted installation. Ensure proper sealing between the roof base and the fan mounting flange to prevent water leakage. The mounting surface must be stable and capable of supporting the unit weight. Provide adequate drainage and weather protection as required. 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). During operation, monitor for abnormal vibration, noise, or overheating.

7. MAINTENANCE

Disconnect power before any intervention. Periodically inspect and clean the impeller and protective grille. Check roof sealing components to ensure no water ingress. 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

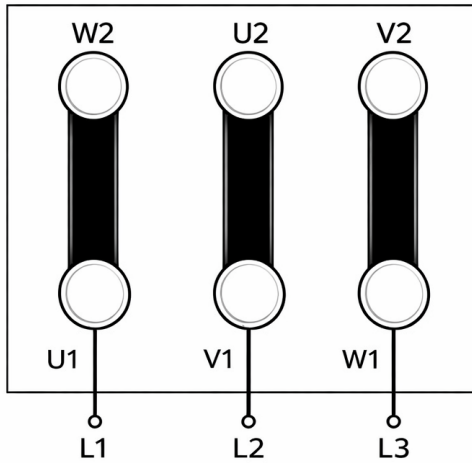
Issue	Possible Cause	Solution
Fan not starting	No power / wrong wiring	Check supply; verify wiring per diagram
Abnormal noise	Foreign object or misalignment	Inspect impeller/duct; tighten mounts
Low airflow	Obstruction, incorrect rotation, roof blockage	Remove obstruction; verify rotation direction

9. WARRANTY

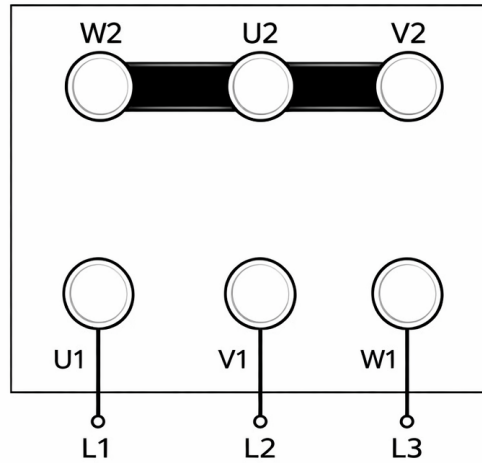
Warranty period is 2 years from delivery against manufacturing defects. Improper installation, user errors, and electrical faults are excluded. Repair time is up to 30 business days after notification.

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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