

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 in accordance with IP55 protection class.
- Do not operate the fan outside the specified temperature and operating limits.
- Ensure that foreign objects cannot enter the fan inlet during operation.

2. GENERAL DESCRIPTION

UVS-Y series fans are high pressure radial fans designed for industrial ventilation, dust collection and pneumatic transport applications. These fans provide high pressure performance for systems requiring resistance against long duct lines or filtration equipment. The housing and impeller are manufactured from durable DKP sheet metal. The fan can be supplied with direct-coupled or belt-driven motor configurations depending on system requirements.

3. TECHNICAL SPECIFICATIONS

Airflow Range	6,500 – 37,500 m³/h (depending on model)
Static Pressure	7,500 to 12,000 Pa
Fan Type	High pressure radial fan
Power Range	7.5 – 45 kW
Body & Impeller Material	DKP sheet metal
Noise Level	95 – 136 dB(A)
Protection / Insulation	IP55 / F class
Frequency	50 Hz
Operating Temperature	-20 to +50 °C

4. AREAS OF USAGE

- Dust collection systems
- Fume and exhaust gas removal
- Pneumatic transport of fine materials
- Marble and stone processing plants
- Wood and furniture production facilities
- Plastic granule transport systems
- Industrial manufacturing environments

5. INSTALLATION

Install the fan on a rigid base or structural frame capable of supporting the fan weight and vibration loads. Ensure that the fan inlet and outlet connections are properly aligned with the ducting system. Electrical connections must be performed according to the motor nameplate and wiring diagram. Verify correct grounding before operation.

6. OPERATION

Before starting the fan verify that the supply voltage and frequency correspond to the motor specifications. Check the rotation direction of the impeller before full operation. During operation monitor the system for abnormal noise, vibration or airflow reduction.

7. MAINTENANCE

Disconnect electrical power before performing maintenance. Inspect the impeller and housing periodically for dust accumulation or material buildup. Clean internal surfaces when necessary. Check mounting bolts and mechanical connections regularly. Bearings and drive components should be inspected according to operating conditions.

8. TROUBLESHOOTING

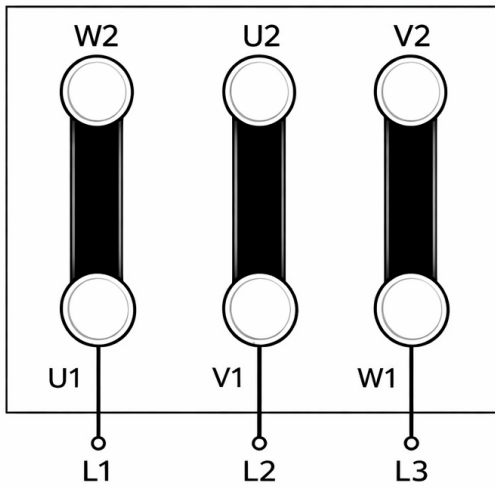
Issue	Possible Cause	Solution
Fan not starting	No power / wrong wiring	Check supply; verify wiring per diagram
Abnormal noise	Foreign object or misalignment	Inspect impeller/duct; tighten mounts
Low airflow	Blocked duct system, incorrect rotation direction, impeller contamination	Clean duct system, verify rotation direction, clean impeller

9. WARRANTY

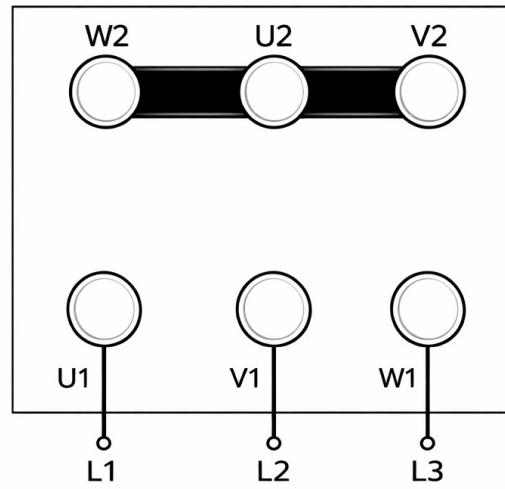
Warranty period is 2 years from delivery against manufacturing defects. Improper installation, user errors, and electrical faults are excluded. Repair time is up to 30 business days after notification.

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