

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.
- The fan is designed for material transport and dust collection applications.
- Installation and electrical connections must be carried out 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 atmospheres unless the system is specially designed for such conditions.

2. GENERAL DESCRIPTION

UVS-TR is a radial fan designed for the pneumatic transport of fine materials and dust particles. The fan is suitable for conveying materials such as marble dust, wood dust, granules and plastic particles in industrial processes. 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	1,900 – 8,000 m³/h (depending on model)
Static Pressure	4,000 to 8,500 Pa
Fan Type	Material transport radial fan
Power Range	2.2 – 18.5 kW
Body & Impeller Material	Galvanized sheet metal
Noise Level	82 – 110 dB(A)
Protection / Insulation	IP55 / F class
Frequency	50 Hz
Operating Temperature	-20 to +50 °C

4. AREAS OF USAGE

- Dust collection systems
- Pneumatic material transport systems
- Marble processing plants
- Wood and furniture production facilities
- Printing, paper and textile industries
- Plastic granule transport applications

5. INSTALLATION

Install the fan on a stable base or structural frame capable of supporting the fan weight and vibration loads. Ensure proper alignment with the ducting or material transport pipeline. Electrical connections must be made 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 match the motor nameplate. Check the rotation direction of the impeller before full operation. During operation observe the system for abnormal vibration, noise or blockage in the transport line.

7. MAINTENANCE

Disconnect the electrical supply before performing maintenance. Periodically inspect the impeller and housing for accumulated material deposits. 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

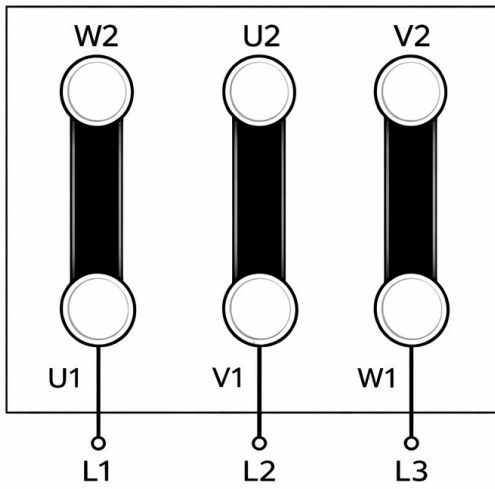
Issue	Possible Cause	Solution
Fan not starting	No power / wrong wiring	Check supply; verify wiring per diagram
Abnormal noise	Foreign object or misalignment	Inspect impeller/duct; tighten mounts
Low airflow	Blockage in pipeline, incorrect rotation direction, impeller contamination	Remove blockage, check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

9. WARRANTY

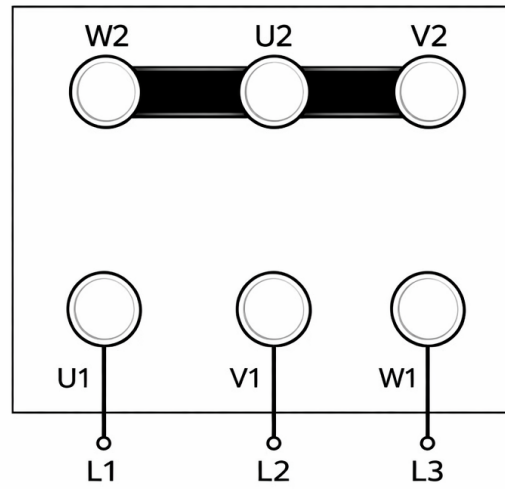
Warranty period is 2 years from delivery against manufacturing defects. Improper installation, user errors, and electrical faults are excluded. Repair time is up to 30 business days after notification.

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