

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 maintenance or inspection.
- Ensure proper grounding according to IP55 protection class requirements.
- Do not operate the fan outside specified operating limits.
- Ensure belt drive components are properly installed and guarded before operation.

2. GENERAL DESCRIPTION

UVS-GB series are radial fans equipped with a belt-driven transmission system. The belt and pulley mechanism allows flexible speed adjustment, providing strong airflow performance and high efficiency. The fan body and impeller are manufactured from DKP sheet metal. These fans are designed for industrial ventilation applications requiring adjustable airflow and reliable operation.

3. TECHNICAL SPECIFICATIONS

Airflow Range	3,500 – 50,000 m³/h (depending on model)
Static Pressure	650 – 3,300 Pa
Drive Type	Belt and pulley system
Power Range	0.55 – 22 kW
Impeller Material	DKP sheet metal
Noise Level	70 – 108 dB(A)
Protection / Insulation	IP55 / F class
Frequency	50 Hz
Operating Temperature	-20 to +50 °C

4. AREAS OF USAGE

- Ventilation systems
- Furniture and polishing workshops
- Industrial kitchen ventilation
- Clean or slightly dusty air transport applications
- Industrial airflow systems requiring adjustable speed

5. INSTALLATION

Install the fan on a stable base capable of supporting the fan weight and vibration loads. Ensure correct alignment between motor and fan pulleys. The belt tension must be properly adjusted before operation. Ensure proper alignment with duct connections. Electrical connections must be performed according to the motor nameplate and wiring diagram.

6. OPERATION

Before starting the fan verify that the supply voltage and frequency correspond to the motor specifications. Check belt tension and pulley alignment. Ensure correct rotation direction. Airflow can be adjusted by changing pulley ratios. During operation monitor for abnormal vibration, noise or airflow reduction.

7. MAINTENANCE

Disconnect electrical power before performing maintenance. Inspect belt and pulley system regularly for wear and proper tension. Replace worn belts when necessary. Check alignment of pulleys. Inspect the impeller and housing for dust accumulation and clean when required. Check mounting bolts and electrical connections regularly.

8. TROUBLESHOOTING

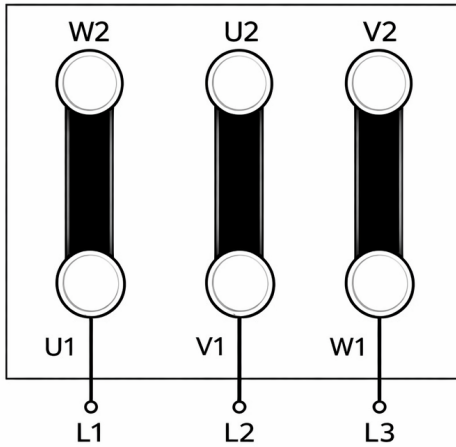
Issue	Possible Cause	Solution
Fan not starting	No power / wrong wiring	Check supply; verify wiring per diagram
Abnormal noise	Foreign object or misalignment	Inspect impeller/duct; tighten mounts
Low airflow	Incorrect belt tension, pulley mismatch, obstruction, impeller contamination	Adjust belt tension, check pulley system, remove obstruction, clean impeller

9. WARRANTY

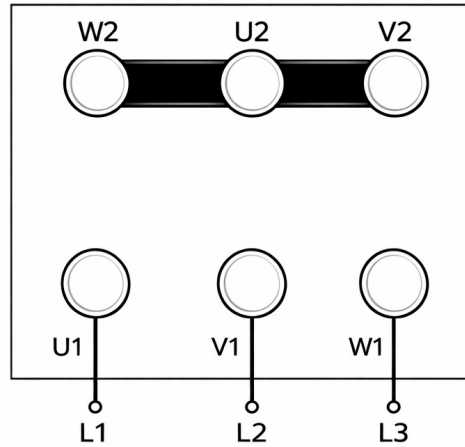
Warranty period is 2 years from delivery against manufacturing defects. Improper installation, user errors, and electrical faults are excluded. Repair time is up to 30 business days after notification.

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