

UVENTS



Installation, Operation & Maintenance Manual

UVENTS Ventilation Systems

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1. SAFETY INFORMATION

- Read and retain this manual before operating the unit.
- This fan is designed for dust collection applications only.
- Do not use for explosive dust unless certified for such environments.
- 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.
- Ensure dust collection bags are properly installed before operation.

2. GENERAL DESCRIPTION

UVS-T is a portable radial dust collector fan designed for the absorption of sawdust, granular materials, wood shavings and metal sawdust. The unit includes a top bag filter and a bottom collecting bag for efficient particle separation. Collected particles are gathered inside easily replaceable filter bags. The machine is mounted on four small wheels for mobility. The body and impeller are manufactured from DKP sheet metal.

3. TECHNICAL SPECIFICATIONS

Airflow Range	1,000 – 2,200 m ³ /h (depending on model)
Static Pressure	2,000 to 4,500 Pa
Power Range	0.75 to 3 kW
RPM	2,800
Body & Impeller Material	DKP Sheet Metal
Motor Efficiency Class	IE2 / IE3
Protection / Insulation	IP55 / F class
Construction	Portable unit with 4 wheels
Operating Temperature	-20 to +50 °C

4. AREAS OF USAGE

- Wood workshops
- Furniture production facilities
- Metal processing areas
- Granular material handling
- Applications requiring dust collection and filtration

5. INSTALLATION

Position the unit on a stable and level surface. Ensure sufficient space around the machine for airflow and bag replacement. Connect suction ducting securely to the inlet opening. Confirm that filter bags are correctly installed before operation. 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). Ensure both top filter bag and bottom collecting bag are properly installed. During operation, monitor for abnormal vibration, noise or reduced suction performance.

7. MAINTENANCE

Disconnect power before any intervention. Regularly inspect and replace filter bags when full or damaged. Clean internal surfaces to prevent dust accumulation. Check impeller for imbalance caused by debris. Ensure wheels and mounting components remain secure. Bearings are maintenance-free under normal operating conditions.

8. TROUBLESHOOTING

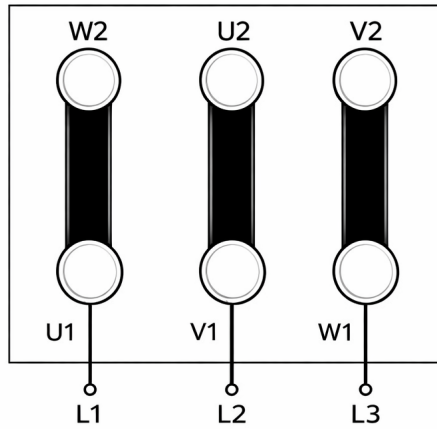
Issue	Possible Cause	Solution
Fan not starting	No power / wrong wiring	Check supply; verify wiring per diagram
Abnormal noise	Foreign object or misalignment	Inspect impeller/duct; tighten mounts
Low airflow	Full filter bag, clogged filter, obstruction	Replace or clean filter bags; remove obstruction

9. WARRANTY

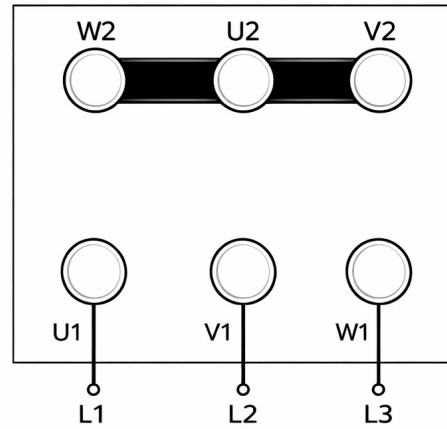
Warranty period is 2 years from delivery against manufacturing defects. Improper installation, user errors, and electrical faults are excluded. Repair time is up to 30 business days after notification.

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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