

UVENTS



Installation, Operation & Maintenance Manual

UVENTS Ventilation Systems

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1. SAFETY INFORMATION

- Read and retain this manual before operating the unit.
- Use only for industrial ventilation applications within specified limits.
- Do not use in explosive or highly corrosive atmospheres.
- All electrical work must be performed by qualified personnel.
- Disconnect power before installation or maintenance.
- Ensure proper grounding and electrical protection according to IP44 standards.

2. GENERAL DESCRIPTION

UVS-SM-ST is an industrial aspirator series designed for wall or window mounting in industrial ventilation applications. The unit is equipped with a direct coupled single-phase or three-phase motor and a 6-bladed concave impeller system. The body and impeller are manufactured from DKP steel sheet. The series provides efficient air extraction for industrial and commercial environments.

3. TECHNICAL SPECIFICATIONS

Airflow Range	2,000 to 8,000 m ³ /h
Static Pressure	100 to 250 Pa
Impeller	6-bladed concave type
Drive Options	Direct drive (Single-phase or Three-phase motor options)
Body & Impeller Material	DKP Steel Sheet
Motor Efficiency Class	According to motor data
Protection / Insulation	IP44 / B class
Frequency	50 Hz
Operating Temperature	-20 to +50 °C

4. AREAS OF USAGE

- Industrial ventilation applications
- Factories and workshops
- Warehouses
- Areas requiring wall or window mounted air extraction

5. INSTALLATION

The unit is designed for wall or window mounting. Ensure secure and stable installation to prevent vibration. Confirm that the mounting surface can support the unit weight. Electrical connections must be made according to the motor nameplate and wiring diagram. Proper grounding is mandatory.

6. OPERATION

Verify that the 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 noise, vibration, or overheating.

7. MAINTENANCE

Disconnect power before any intervention. Periodically inspect and clean the impeller and protective grille to prevent dust accumulation. Ensure that 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 or incorrect installation	Remove obstruction; verify correct mounting and rotation

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.

